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227
Annual Catalogue for 1930

First Quality Seeds

**Bulbs, Flowers
and Poultry Supplies**

RECEIVED
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U. S. Department of Agriculture



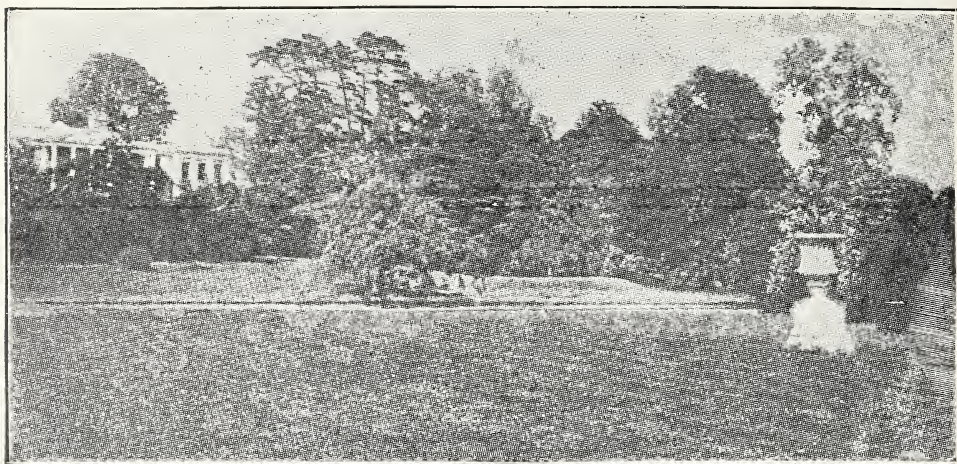
Des Moines Seed Co.

Des Moines, Iowa

818 Walnut St.

Phone 3-4408

D. N. Shoemaker Vegetable Seed Trials JAN 31 1930



LAWN GRASS SEED

A nice, velvety lawn adds more to the beauty of a place than any other adornment, while without a good lawn even the finest flowering plants and elegantly arranged beds seem insignificant. How important it is then to plan for the best lawn obtainable.

KENTUCKY BLUE GRASS.—(Bu., 14 lbs.)

—The legal weight of Blue Grass is 14 lbs. per bushel. Improved cleaning is now possible and our grade will actually weigh 21 to 25 lbs. per measured bushel. To avoid confusion we offer by the pound. We pride ourselves on this extra choice grade, which is of unusual purity and high germination and of special value for lawns. This is the best grade of fancy cleaned, new crop, tested seed. Lb., 60c, postpaid in Iowa.

WHITE CLOVER.—The well-known common white clover is very hardy and its dwarf growth makes it desirable for lawn mixtures. Its close, dense turf and creeping habit makes it fine for terraces and sloping ground. Seed very small and requires but little in mixtures. Our stock is the best and cleanest we can find. Specially for lawns. Lb. 65c; 3 lbs., \$1.80, postpaid.

EVERGREEN MIXED LAWN GRASS SEED.—(Bu., 15 lbs.)—Makes a beautiful, soft, velvety lawn, handsome green as an emerald and is formed of grasses which keep green from early spring all through summer. Grows quickly and it soon covers the ground. Ready in 6 or 8 weeks. New crop, re-cleaned seeds. One pound will sow about 400 square feet. Price per lb., 50c; 3 lbs. for \$1.35, postpaid to Iowa points.

SHADY PLACE MIXTURE.—(Bu., 15 lbs.) All grasses need sunlight, but certain ones thrive better in shaded situations than the ordinary kinds. By the use of our Shady Place Mixture you can get a fine grass under trees and along north side of boundary fences and hedges. Sow one lb. to 300 square feet. Per lb., 50c; 3 lbs., \$1.40, postpaid.

TERRACE LAWN MIXTURE.—(Bu., 15 lbs.)—It is very difficult sometimes to grow a good sod on sloping ground, terraces, side hills, or on embankments. This is a mixture of grasses which have strong and spreading roots, making a close turf which heavy rains cannot wash out easily. Per lb., 60c; 3 lbs., \$1.60, postpaid.

SOUTH GERMAN BENT GRASS.—A fine grass which makes a beautiful turf and spreads rapidly. Best results for shady spots. Per lb., \$1.00, postpaid.

SWIFT'S VIGORO

Science now shows the way to secure what you have always wanted—velvety lawns, crisp, succulent vegetables, beautiful flowers, luxuriant shrubs and trees.

For such results plants must be properly fed. Vigoro, scientifically prepared, is a complete plant food. It is a combination of minerals and includes over a dozen kinds to provide every required element in proper proportion for best results. It is surprisingly inexpensive—only 10c to 20c for every 100 square feet. And so easy to apply! You simply sow by hand, like grass seed. It is odorless and clean and will not soil or stain your clothing.

Hundreds of professional gardeners, thousands of home owners, have come to rely on Vigoro, to recommend it enthusiastically. You will find full directions for its use in every bag and directions are printed on the 5-lb. tin cans. Get enough Vigoro for all the things you grow.

Enough concentrated nourishment in a 100-lb. sack for garden or lawn 50x50 to 50x100 feet! Only 2 to 4 lbs. per 100 square feet! In paper-lined bags of 100, 50, 25 lbs., and 5 lb. packages. Order Vigoro today for all the things you grow.

Experienced gardeners find that Vigoro gives sure results—a quick, vigorous start—crisp, succulent vegetables.

Vigoro is not to be compared with any other plant food you have ever known! Ideal for lawns and flowers, too. And not costly!

Prices: 5-lb. can, 50c; 25-lb. bag,

\$1.75; 50-lb. bag, \$3.00; 100-lb. bag, \$5.00.



LAWN FERTILIZERS

PEERLESS FERTILIZER.—A high-grade commercial fertilizer showing 3-12-4 analysis. Extra strong. Prepared for lawn and garden uses. For lawns apply 40 lbs. per 1,000 square feet. For gardens use ½ lb. per foot of row or 300 pounds per acre. Price, 25 lbs., \$1.00; 100 lbs., \$3.00.

SHEEP MANURE.—A natural manure, undiluted. If wanted in liquid form, dissolve at the rate of 1 lb. to 5 gallons of water. Price, 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs. for \$3.00. Ask for price in quantity.

PURE BONE MEAL.—It is clean, free from odor and gives results in added growth of grass. Preferred by many users because it lasts longer than other fertilizers, one application usually showing results for several seasons. 10 lbs., 50c; 50 lbs., \$2.00; 100 lbs., \$3.75. Ask for prices in quantity.

January 2, 1930

TODAY'S VALUES

FIRST QUALITY SEEDS

DES MOINES SEED COMPANY

818 Walnut Street

Phone 3-4408

Des Moines, Iowa

About Warranting—Notice—We use great care in selecting and testing all seeds, and nothing is sent out which we do not believe to be good in every respect, but we do not give any warranty, express or implied, as to description, quality or any other matter of any seeds we send out, and we will not be in any way responsible for the crop. If not accepted on these terms, they are to be returned at once, and the money paid for same will be refunded.

CLOVER AND GRASS SEEDS

Clover and Grass Seeds are sold on a close margin of profit and the price fluctuates with the market. These prices are good for orders sent within ten days under general conditions, but of course are subject to stock unsold, and we reserve the right to change without notice should there be extreme fluctuations. If you do not buy until later ask for prices then. 14 lbs. or more sold at the 100-lb. rate.

	Per 100 lbs.	Equals per bu.
Clover Seed—Weight 60 lbs. per bu.		
Medium Red—First quality	\$25.00	\$15.00
Mammoth Red—First quality	26.50	15.90
Alsike—First quality	25.00	15.00
Alfalfa—First quality (N. W.)	30.00	18.00
" Dakota or Idaho	35.00	21.00
" Grimm, northern	45.00	27.00
Sweet—Officialis Yellow biennial	12.00	7.20
" First quality White biennial	11.00	6.60
" Grundy County White	12.00	7.20
Hubam	40.00	24.00
White Dutch—First quality	50.00	30.00
Timothy (45 lbs. bu.)	9.00	4.05
Timothy and Alsike Mixed (50 lbs. bu.)		
About 20% Alsike	12.50	6.25
Sudan Grass—(30 lbs.)	10.00	3.00
Millet—First quality (50 lbs.)	7.00	3.50
Manitoba	7.00	3.50
Hungarian	8.00	4.00

LIGHT GRASSES

All sold on the basis of 14 lbs. per bushel except			
The Mixtures, which are	Per	Equals	
15 lbs. per bushel.	100 lbs.	per Bu.	
K'y Blue Grass—First quality	\$40.00	\$ 5.60	
Lawn Grass—Evergreen	40.00	6.00	
Shady Place	45.00	6.75	
Terrace Mixture	50.00	7.50	
Putting Green	50.00	7.50	
Golf Links	50.00	7.50	
Red Top—Fancy Cleaned	25.00	3.50	
Orchard Grass	25.00	3.50	
Perennial Rye Grass	20.00	2.80	
Italian Rye Grass	18.00	2.52	
Eng. Blue Grass (Meadow Fescue)	25.00	3.50	
Bermuda Grass	45.00	6.50	

SEED POTATOES

Market unsettled. Write for price, or if you order now the order will be filled according to value at shipping time, usually April 1st to 10th.

	Peck	Bushel
Extra Early Ohio	\$.75	\$ 3.00
Red Triumph	.75	3.00
Irish Cobbler	.75	3.00
Burbank (late)	.75	3.00
Rural New Yorker (late)	.75	3.00
Sweet Potatoes, Yellow Jersey, bu., \$3.50 bbl.		9.00
Sweet Potatoes, Nancy Hall, bu., 3.75 bbl.		10.00

SEED CORN

	Per bu.	10 bu.
Iowa Gold Mine	\$ 4.00	\$37.50
Iowa Silver Mine	4.00	37.50
Reid's Yellow Dent	4.00	37.50
Pride of the North	4.00	37.50
Iowa Grown Krug	4.00	37.50
Longfellow Dent	4.50	40.00
Early Leaming	4.00	37.50
Evergreen Sweet Fodder (50 lbs.)	6.00	....

FORAGE AND FODDER CROPS

You can greatly increase your yield for forage, fodder, or silo by growing these.	100 lbs.	Per bu.
CANE—For Fodder (50 lbs.)	\$ 5.00	\$ 2.50
KAFFIR CORN—For seed (56 lbs.)	5.00	2.80
MILO MAIZE—Red for seed (56 lbs.)	5.00	2.80
FETERITA	5.00	2.80
DWARF ESSEX RAPE—10 lbs.	\$1.50	12.00
FIELD PEAS—White	8.00	4.80
SOY BEANS—Ito San (North) 60 lbs.	6.25	3.75
Manchu (Northern)	6.25	3.75
Black Eyebrow	6.25	3.75
BROOM CORN—Evergreen	7.00	3.50
Dwarf	7.00	3.50

SEED GRAIN

It pays to sow pure bred clean seed grain to get a good crop. We can please you.

	Per bu.	10 bu. or more at
SEED OATS—Iowa	\$ 1.00	\$.90
White Kherson (Iowa 103)	1.00	.90
Richland (Iowa 105)	1.00	.90
SEED BARLEY—Manshury	2.00	1.90
Oderbrucker	2.00	1.90
SEED WHEAT—Marquis	2.50	2.40
Early Java	2.50	2.40
SEED RYE—Rosen, Winter	1.75	1.65
Monster, Winter	1.75	1.65
BEANS—Improved Navy, lb., 15c	7.50	7.20
Red Kidney, lb., 25c	12.00	
Great Northern	12.00	

POULTRY FOODS

	Per 100 lbs.
Plymouth Rock Foods	
Plymouth Rock Hen Food	\$ 2.75
Plymouth Rock Chick Food	3.25
Plymouth Rock Egg Mash	3.00
Plymouth Rock Buttermilk Food	4.00
Cracked Corn, screened	2.65
Corn Meal	2.65
Shelled corn	2.50
Bran, best quality	2.25
Shorts, good quality	2.50
Oats, whole, for sprouting or feeding	2.40
Milo Maize and Kaffir Corn, mixed	2.75
Barley for feeding	2.50
Buckwheat, for feeding	5.00
Field Peas	8.00
Sunflower	10.00
Oil Meal—Linseed	3.50
Alfalfa Meal	3.00
Meat Scraps	6.00
Crushed Oyster Shell, regular	1.75
Poultry Grit	1.75
Crushed Raw Bone, poultry size	5.00
Fine Crushed Bone, for chicks	5.00
Charcoal, fine or coarse	5.00
Conkey's Buttermilk Starting Food	5.50

McQUEEN'S BACTERIA

No. 1 for Alfalfa and Sweet Clover, bu.	\$1.00
No. 2 for Red Clover, Alsike, etc., bu.	1.00
No. 6 for Soy Beans, per bu.	.60

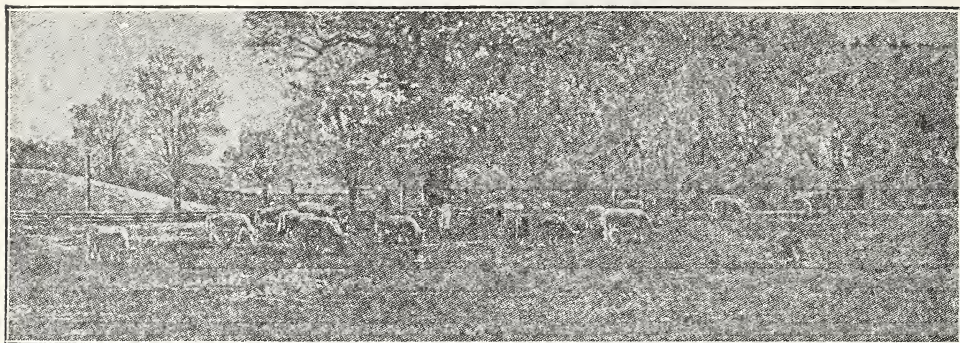
SEMESAN DISINFECTANTS

Ceresan, for grain	.4 oz., 50c; 1 lb., \$.75
Semesan, for bulbs and roots	.2 oz., 50c; 1 lb., 2.75
Semesan Jr., for seed corn	.4 oz., 50c; 1 lb., 1.75
Semesan Bel, for potatoes	.4 oz., 50c; 1 lb., 1.75
Merko Disinfectant, for corn	.4 oz., 50c; 1 lb., 1.75

FERTILIZERS

	100 lbs.	1000 lbs.
Acid Phosphate	\$ 2.25	\$17.50
Pulverized Sheep Manure	3.00	26.00
Pure Bone Meal	3.75	35.00
Nitrate of Soda	6.00	55.00
Sulphate of Ammonia	6.00	55.00
Muriate of Potash	5.00	47.50
Garden Fertilizer 3-12-4	3.00	27.50
Vigoro Special Lawn and Garden	5.00	47.50
Tobacco Dust Fertilizer	4.00	35.00

NO CHARGE FOR BAGS OR DRAYAGE AT ABOVE PRICES. CUSTOMERS PAY FREIGHT



GRASS SEEDS FOR MEADOWS AND PASTURES

MEDIUM RED CLOVER

This is the most important of clovers and our first quality grade is the plumpest, cleanest, purest, fanciest tested, and of high vitality. Farmers usually sow 15 to 20 pounds of clover seed to the acre when sown alone, but this seed is so choice that 6 or 7 pounds is really sufficient, but we recommend sowing 10 pounds to be sure of a perfect stand. About 3 pounds, if sown with timothy. Per lb. 40c, 3 lbs. \$1.10, postpaid.

MAMMOTH RED CLOVER

Also called Sapling or Pea Vine Clover. It greatly resembles the Medium Red but grows coarser and more vigorous. It is the best for pasturing as it produces an enormous yield. Not as desirable for hay. Specially desirable for hog pasture. Per lb., 50c, 3 lbs. \$1.35, postpaid.

ALFALFA

No crop is so valuable for permanent meadow as Alfalfa. Three crops of hay are cut generally, while many seasons produce four cuttings. It stands the dry, hot months of July and August, and continues green and growing at this time when other grasses are dormant. It is grown everywhere now, and it is a question of soil rather than climate which determines success. We procure our Alfalfa seed from the states of Idaho, Nebraska and South Dakota so that they are suitable for any section of the country. Actual tests of seed from all over the United States show that the stocks produced in the states named give the best results. Per lb. 50c, 3 lbs. for \$1.40, postpaid.

ALSIKE CLOVER

A perennial variety. Does not die out after seeding as does the common red. Preferred for permanent pastures and meadows. Hardier than common clover and will winter over the severest seasons. It thrives on wet, heavy soils and in mucky ground better than any other. It grows 18 to 24 inches high and has round pink or flesh colored blossoms. The seed is small and 7 lbs. alone or 3 lbs. with timothy, are sufficient for an acre. You can seed with Alsike at a lower cost per acre than any other clover. Per lb. 40c, 3 lbs. for \$1.10, postpaid.

SWEET CLOVER

This is now a standard crop. It is being used in spring sowing exactly as common red clover. Some farmers seed it with small grain for nurse crop, while others are sowing it alone in early spring and securing both pasturage and hay the first year. The handling of this crop has passed the experimental stage. We now have machines to hull and clean it, so that we offer it in as high quality and purity as any clover. Per lb. 30c, 3 lbs. for 80c, postpaid.

TIMOTHY

Now the most popular and widely distributed of grasses. It grows throughout the United States; thrives in the temperate zones throughout the world. It is a hardy perennial and quite tenacious so that it continues to grow in spite of summer heat or winter cold. It is the foundation grass for meadows and pastures and is popular because it fits in with almost any rotation system. Generally sown with clover in spring, among oats, wheat or rye. Use 12 lbs. of seed per acre if alone; 10 lbs. with clover. Per lb. 25c, 3 lbs. 50c, postpaid.

KENTUCKY BLUE GRASS

Kentucky Blue Grass is the most popular of the light grasses. It thrives in all parts of the United States. As a pasture grass it affords more nourishment for live stock than any other. Sow 15 pounds per acre. First quality. The legal weight of blue grass is 14 lbs. per bushel. Ours actually weighs 19 to 21 lbs. per measured bushel. By mail postpaid per lb. 50c, 3 lbs. \$1.40.

ORCHARD GRASS

Second only to blue grass as a pasture grass and superior to it for meadow purposes. Available very early in spring and continuing fit until frozen. Seems to grow more luxuriantly the more it is cropped. Thrives better in shaded situations than other grasses, and is therefore specially valuable for woodland pastures and meadows. Per lb. 50c, 3 lbs. \$1.40, postpaid.

ENGLISH BLUE GRASS

Also called Meadow Fescue. (Weight 14 lbs. per bushel.) A valuable grass and one growing in use as it becomes known to western planters. It is splendid in mixed pastures or meadows. Sow 20 lbs. per acre if alone. Lb. 50c, 3 lbs. \$1.40, postpaid.

RED TOP

Very hardy perennial, in form similar to blue grass. Specially useful as an item in pastures or meadows on wet soils. Adapted to almost all land. Solid seed per lb. 45c, 3 lbs. \$1.25, postpaid.

PERENNIAL RYE GRASS

Also known as English Rye Grass. This sort is perennial, perfectly hardy in our climate and a valuable grass for permanent meadows or pastures. Legal weight 14 lbs. per bushel. Sow 20 lbs. per acre. Lb. 35c, 3 lbs. \$1.00, postpaid.

ITALIAN RYE GRASS

The annual rye grass which grows so quickly. Produces a fine crop of hay in 70 to 80 days. Will produce second crop suitable for pasturage. Sow 14 lbs. (1 bu.) per acre. Per lb. 35c, 3 lbs. \$1.00, postpaid.

WHITE DUTCH CLOVER

See inside front cover.

CONSULT THE FARM SEED LIST FOR GRASS SEED VALUES OR WRITE FOR PRICES.

Order Sheet for **FIRST QUALITY SEEDS**

To DES MOINES SEED CO., 818 Walnut St., Des Moines, Ia.

Send the following items in accordance with prices and terms as stated in your catalogue.

Name _____

Postoffice _____ State _____

R. R. Station_____

Amount \$ _____

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A FIELD OF SUDAN GRASS

AMBER CANE FOR SYRUP

An improved variety. The stock seed has been saved from stalks tested for sugar content. Specially recommended for northern planters as it matures quicker than other varieties. Will grow over wider area than any other sort. Has produced 8 tons of stripped cane per acre, producing an excellent grade of sorghum and in addition a crop of seed which averaged a ton to the acre. Use only 5 lbs. seed per acre. Price: Per lb. 25c, 3 lbs. 60c, postpaid. Not prepaid, 10 lbs. \$1.25, 25 lbs. \$3.00, 100 lbs. \$10.00.

CANE FOR FODDER

There is no fodder plant in existence that is so generally popular or that is grown over such a wide scope of territory. It is profitably grown anywhere from Manitoba to Mexico, on any good corn ground, and does not appear to be affected by drouth. It is easy to raise, the only real labor in its management coming at the harvest. It is valuable as pasture, green forage, as hay or fodder, and as silage, so that a live stock feeder can, from one field of cane produce feed for several months as needed. It is wonderfully productive, the Ames Agricultural College harvesting twenty-nine tons of fodder per acre on August 27th from a plot seeded on May 21st. Prices: Not prepaid, 25 lbs., \$1.50. See Farm Seed price list.

KAFFIR CORN

Grows five to six feet high, straight, upright growth. The stalk bears numerous wide leaves; keeps brittle and juicy, making excellent fodder, either green or dried. Seed crop is heavy, yielding 30 bushels per acre. Can go without rain without any loss in yield. Generally cultivated in drilled rows about three and one-half feet apart, requiring about ten pounds per acre. It is given about the same cultivation as ordinary corn except that it is only cultivated one way. In sowing broadcast treat same as Amber Cane and we recommend from 50 to 100 pounds of seed per acre. Use a grain drill, cross planting both ways. Price, packet 5c, lb. 20c, 3 lbs. 50c, postpaid. By freight or express, not prepaid, 10 lbs. 75c, 25 lbs. \$1.50.

MILO MAIZE

Belongs to the same family as Feterita and Kaffir Corn and resembles them in manner and habit of growth. Price per lb. 20c, 3 lbs. 50c, postpaid. By freight or express, not prepaid, 10 lbs. 75c, 25 lbs. \$1.50.

FETERITA

Similar to Milo Maize and Kaffir Corn in general habit. It matures earlier than either, however, and the grains are somewhat larger and softer. Per lb. 20c, 3 lbs. 50c, postpaid. By freight or express, not prepaid, 10 lbs. 75c, 25 lbs. \$1.50.

SUDAN GRASS

This is an annual grass which is very highly recommended. It has become in a few short years one of the principal, if not the leading forage crop of America. Each year adds to its popularity as it proves a splendid crop. We have no record of failure or disappointment to the planter. We recommended Sudan Grass to take the place of the millets as a summer hay crop. It will yield much larger quantities per acre than any of the varieties of millet generally grown and is of better quality. This in our judgment is its most valued place in agriculture. Per lb. 25c, 3 lbs. 60c, postpaid.

DWARF ESSEX RAPE

At the Iowa Experiment Station, 60 bushels of oats and 18 tons of rape were grown on an acre, the oats and rape being sown together early in the spring. The rape interfered but slightly with harvesting the oats and afterwards produced a heavy growth which amounted to 18 tons when cut in October. Rape is also sown in corn at last cultivation. This is a very profitable method where the crop is to be "hogged down" in October. Rape belongs to the cabbage family and will generally withstand the frosts of September or early October, and adds greatly to the value of the forage crop with the corn where stock are turned in. Per lb. 25c, 3 lbs. 60c, postpaid.

SOY BEANS

Price any variety Soy Beans, per lb. 25c, 3 lbs. 60c, postpaid. See Farm Seed List for quantity prices.

The most valuable method of using the Soy Beans in the Corn Belt is to plant them in the corn at the time of planting, placing two or three beans in each hill of corn. Most planters now have either a Soy Bean attachment or one which can be adjusted to the dropping of the beans in the manner suggested. The crop is "hogged down" in October and produces pork at very low cost. If rape is sown at last cultivation of the corn and beans, added value is given to the pasture.

VARIETIES OF SOY BEANS

BLACK EYEBROW.—Beans are black and yellow, easily identified. Very prolific, early ripening and desirable. Produced the heaviest crop for us this season.

MANCHU.—Medium size, clear yellow bean; grows upright, heavy foliage and splendid yielder. Our stock true to name, grown by ourselves here in Iowa.

ITO SAN.—Best known variety. Beans yellow with distinct spot on blossom end. Upright grower, heavy foliage, very prolific.

MIDWEST.—A small yellow bean of excellent habit. Matures early. Stands up well, with strong foliage. Formerly sold under the name of Mongol and Medium Yellow.

SELECTED SEED CORN FOR 1930

SEE FIRST PAGE FOR SEED CORN PRICES.

All our seed corn is offered with return privilege. We give you fifteen days in which to examine and test it, and if it does not please you it may be returned and any money paid will be refunded. Further than this we do not guarantee as we cannot be responsible for the crop.

Iowa Gold Mine

Ripens in 95 days. Will mature when other varieties fail because the cob is so small it dries out quickly and thoroughly. Seventy pounds of ears make 60 to 64 pounds shelled corn. Most beautiful yellow color and when carefully shelled and cleaned will actually grade No. 1 in the markets. Has wonderful feeding value because the grain is soft and full of oil. A splendid variety to plant with soy beans and rape to "hog down" in the fall. It is strictly a feeder's corn. You cannot afford to sell it on the ear at market price, but it is worth ten cents a bushel more than any other to feed to your live stock.

Krug Yellow Victor

This variety proved the best yielder in the most competitive test ever staged covering a period of three years. One hundred and twenty farmers competed in the test and the Krug was the best yielder each year. The corn grows vigorous, produces large, heavy ears, with large, thick grains. We believe it to be the best main crop variety for central Iowa. It ripens in 100 days and will make sound corn in any season that any other variety will mature. Give it good soil and good cultivation and it will prove a great money maker.

Reid's Yellow Dent

There are a great many subdivisions of this variety because numerous farmers have selected a type to suit their fancy, given it their own name and sold it as a new variety. Our stock of Reid's Dent is not bred from show corn, but is the large, smooth, original type selected for yield and earliness rather than for size or beauty. It is real corn and will make you a real crop. Our strain will ripen in 110 days in an ordinary season, and is fully ten days ahead of the Reid's as generally grown. The corn is too well known to need description as it is the standard main crop variety in Iowa and greater part of corn belt.

Pride of the North

Ripens in 90 days. We think this the best of the extra early dent corns. It has the soft, oily grain so productive of growth in animals. It is the dependence of a man in a pinch. If for any reason you cannot plant until June or if floods drown out the first planting, you can put in Pride of the North and get a good crop. We have matured it planted July 4.

Iowa Silver Mine

Ripens in 100 days. This is in our opinion the best white corn in existence, as it may be depended upon to give extra heavy yields of thoroughly matured corn. The ears are not extra long, averaging ten inches, but they are solid and heavy. The stalks are strong and vigorous and more of them carry two ears than any other sort. In total yield per acre no variety will exceed the Silver Mine, and very few will equal it. Our belief is that over a period of years under ordinary farming conditions the Iowa Silver Mine will prove more profitable than any other kind. Don't be prejudiced against white corn, but if you are just plant Silver Mine and your prejudice will disappear.

Early Leaming

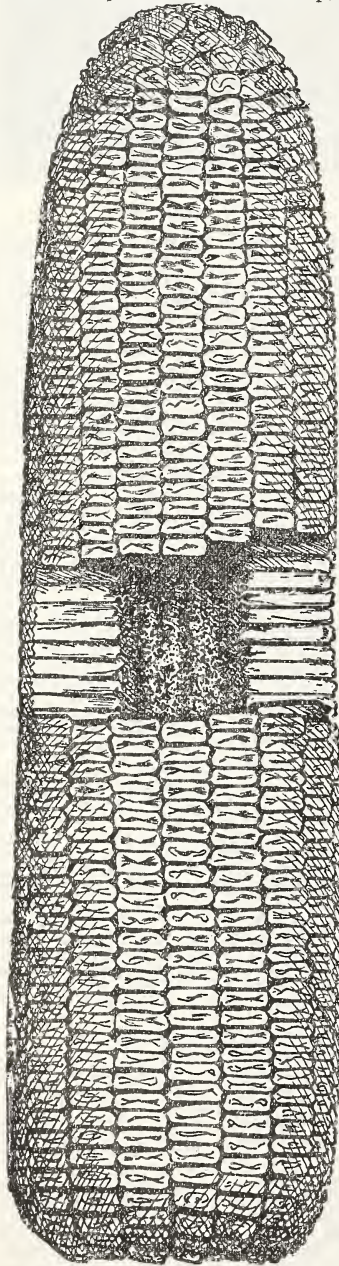
The Leaming corn has been grown for fifty years and is the oldest pure-bred corn now grown. It must possess merit to hold its place in the list in competition with all the progress in corn breeding. A great many varieties have been introduced, grown a few years and discarded, but the Leaming still holds. The reason for this lies in its earliness (95 to 100 days), solidity (the ears are extra heavy for size) and large yields of fine corn. Ears are smooth and easy to husk, and it is a fine variety to haul to market on the car.

Longfellow Dent

This corn has every mark of a cross between flint and dent types. The ear is long (12 to 13 inches), 10 to 12 rows, and the grain is shallow, broad and thick. It is wonderfully vigorous and will produce a crop under most adverse conditions. It ripens in 90 days and can be grown successfully as far north as the Minnesota line. As a corn for hogs it has no superior, while in Nebraska it is known as "cattle corn." It is true dent corn, although it must contain some flint blood in its pedigree. If you want the largest possible crop in the quickest time plant Longfellow Dent. You can use it for the silo, for hogging down, or for winter feeding.

Evergreen Fodder Corn

We consider sweet corn one of the most valuable fodder plants in existence. The type we offer is the large evergreen which grows 8 to 10 feet tall and produces large, heavy ears. Reaches roasting ear stage in 70 days, and is then ready to cut and feed to hogs and milch cows.



IOWA GOLD MINE CORN

SEE PAGE ONE FOR PRICES OF SEED CORN AND OTHER FARM SEEDS

Cut Flowers and Blooming Plants

For Gifts and Social Occasions.
For Hospital and Funeral Service.

FIRST QUALITY SEEDS

POSTPAID PRICES FOR VEGETABLE SEEDS

There are different grades in seeds just as in other merchandise, and it is our policy to handle only the first grades. Such stocks are of course somewhat higher in price than common commercial grades. Our prices are as low as such stocks can be sold, and you may be assured you will get value received. It pays to buy the best seeds. We cannot give any warranty but if you get anything from us that is not satisfactory you can return it and get your money back. You can have 15 days in which to test and examine your purchase.

DES MOINES SEED COMPANY

E. T. Pierce W. J. Newby
SIS WALNUT STREET

R. R. Benn Katherine Brennan
TELEPHONE 3-4408

NOTICE.—We give no warrant, express or implied, as to description, quality, productiveness, or in any other respect, and will not be in any way responsible for the crop.

ASPARAGUS ROOTS

Our roots are strong and healthy. We recommend the one-year-old roots.

CONOVER'S COLOSSAL.—One-year plants.—Per doz., 30c; 100 for \$1.50, postpaid. By express or freight, not prepaid, 100 for \$1.25, 1,000 for \$9.00.

Two-year plants.—Per doz., 50c, 100 for \$2.50, postpaid. By express or freight, not prepaid, 100 for \$1.75, 1,000 for \$15.00.

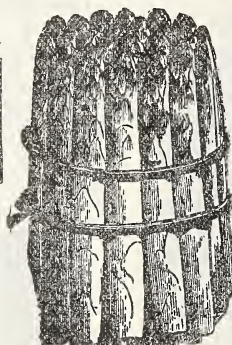
PALMETTO.—One-year plants.—Per doz., 30c; 100 for \$1.50; postpaid. By express or freight, not prepaid, 100 for \$1.25; 1,000, \$9.00.

Two-year plants.—Per doz., 50c, 100 for \$2.50, postpaid. By express or freight, not prepaid, 100 for \$1.75, 1,000 for \$15.00.

NEW WASHINGTON.—Same prices as Palmetto above.

BROCCOLI

ITALIAN GREEN SPROUTING.—A plant of the cauliflower family which, after the first head has been harvested, produces branching sprouts on which are small loose heads, 2 inches in diameter, which are cooked like cauliflower. The flavor is delicate and delicious. Pkt., 10c; oz., \$1.00; ¼ lb., \$3.00



WASHINGTON



BRUSSELS SPROUTS

ASPARAGUS

(One ounce will sow forty feet of drill.)

Asparagus is so easily grown every garden should contain a bed. A bed 10 feet square, requiring 50 plants, will give abundant supply for an ordinary family. Sow early in spring in rows a foot apart; keep clean by frequent weeding and hoeing. Circular on How to Make an Asparagus Bed, free.

THE NEW WASHINGTON.—Entirely distinct variety, that produces shoots which are white as long as they are fit for use. Robust and vigorous in habit, and throws up large shoots. Pkt., 5c; oz., 20c; ¼ lb., 55c; lb., \$2.00.

PALMETTO.—Stalks frequently measure 2 inches in diameter, and even when of extra length are perfectly tender when cooked. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

CONOVER'S COLOSSAL.—The standard variety. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

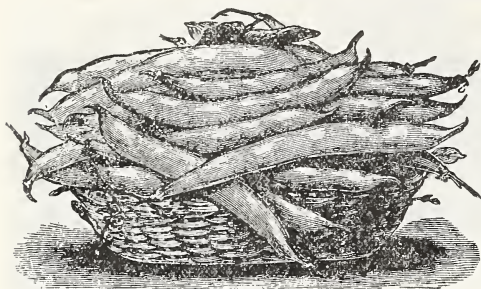
BRUSSELS SPROUTS

(One oz. for about 3,000 plants)

Of the cabbage family, producing numerous heads along the stem, of most delicious quality, with cabbage-like head at top. Use and cultivate like winter cabbage.

AMERICAN MAMMOTH.—A greatly superior variety of American origin, which forms heads about three weeks earlier than other sorts. Profitable for market gardeners. Pkt., 10c; oz., 25c; ¼ lb., 75c.

ALL VARIETIES LISTED IN THIS CATALOG ARE PROVEN SORTS FOR BEST RESULTS



BRITTLE WAX.

WAX POD SORTS

BRITTLE WAX.—Very productive. Pods are nearly straight, rather broad, solid and 4 to 6 inches long. Pods stringless, quality excellent. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, any quantity, 30c per pound.

UNRIVALED WAX.—An extremely productive variety, stringless and very early. Popular with gardeners. A peculiar bright yellow color; very attractive. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, 30 cents per pound.

PENCIL POD BLACK WAX.—Pods tender, round, fleshy and stringless. The best strain of Black Wax type. A favorite for canning in glass. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, 30 cents per pound.



STRINGLESS GREEN POD

GREEN POD SORTS

STRINGLESS GREEN POD.—The most popular green pod variety for both home and market growers. Crisp, tender flavor. Finely shaped, long green pods, absolutely stringless. Ready to pick in 30 days from planting. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, 30 cents per pound.

BOUNTIFUL.—Vines strong, upright, abundant heavy foliage. The pods are thick and broad and entirely stringless, and produced in great profusion. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, any quantity at 30 cents per pound.

FULL MEASURE.—A round pod stringless bush bean for main crop. Heavy yielder of large pods. Said to be the heaviest yielder of the bush beans. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Any quantity not prepaid 30c lb.

STRINGLESS REFUGEE.—Produces thick, fleshy pods abundantly. Pods average 5 in. long and stringless. Splendid quality, nearly the whole crop can be taken at one picking. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, at 30 cents per pound.

BUSH BEANS

(One pound will sow 50 ft. of drill.)

Dwarf or bush beans require no support and may be planted in drills or hills. They do best if not crowded. Do not plant until danger of frost is past. Do not plant more than two inches deep. Never cultivate when the plants are wet. The bean crop is short this year and prices rule higher in the markets. We have not raised our prices and we offer you first grade stock at bargain values.



IMPROVED GOLDEN WAX

IMPROVED GOLDEN WAX.—Pods are rich golden yellow, of perfect shape and rust-proof. Best for family or market garden. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, any quantity at 30 cents per pound.

WARDWELL'S KIDNEY WAX.—Long, flat pods of light waxy yellow color. A favorite market sort of attractive appearance. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, any quantity at 30c per pound.

WEBBER WAX.—Extra quality, long, flat pods. Stringless. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, any quantity at 30 cents per pound.



BOUNTIFUL

YOU CAN PLANT EARLY GARDEN BEANS AS LATE AS AUGUST 15 FOR CANNING



BURPEE'S BUSH LIMA.



POLE BEANS

Frequently planted among the corn and good returns are secured, but if you can furnish poles for support they will produce wonderfully; far more than the dwarf sorts.

OLD HOMESTEAD.—Is also known as Improved Kentucky Wonder. Enormously productive. Can be grown with corn to good advantage. Pods are long, round and fleshy. Cook very tender and are extra well flavored. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, 30 cents per pound.



LAZY WIFE.

GOLDEN CLUSTER WAX.—The best yellow pod pole bean. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c. Not postpaid, 40c per pound.

LAZY WIFE.—Very popular. Pods rich, tender and stringless qualities until nearly ripe. The white beans are large, round, plump, and make excellent winter shell beans. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, any quantity at 30 cents per pound.

SPECKLED CUT SHORT.—The old-fashioned cornfield bean so popular. Good quality and a good yielder. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, any quantity at 30 cents per pound.

KING OF THE GARDEN LIMA.—An improvement on the large White Lima. Pods are of enormous size with 3 to 5 large beans. The most prolific of the large limas. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, any quantity at 35 cents per pound.

DWARF LIMA BEANS

This type of beans have the true lima shape and flavor. They grow in bush form and are favored because they are easier to produce than the older running types. They do not require support. Plant in rows 3 feet apart to secure greatest yield.

BURPEE'S BUSH LIMA.—Beans are large as the large white pole variety. Grow 18 to 20 inches; stout, erect, branching and vigorous; excellent green shelled beans. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c; postpaid. Any quantity not prepaid at 40 cents per pound.

HENDERSON'S BUSH LIMA.—Sure to ripen its enormous crop. Excellent either green, shelled or dry. Beans are smaller than the pole variety, and are sometimes called "Baby Limas." Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, any quantity at 35 cents per pound.

FORDHOOK BUSH LIMA.—Beans very thick and fleshy, differing in shape from the ordinary large limas, but are fully as large. Of best quality. Pkt., 10c; $\frac{1}{4}$ lb., 20c; lb., 55c; postpaid. Not prepaid, any quantity at 45 cents per pound.

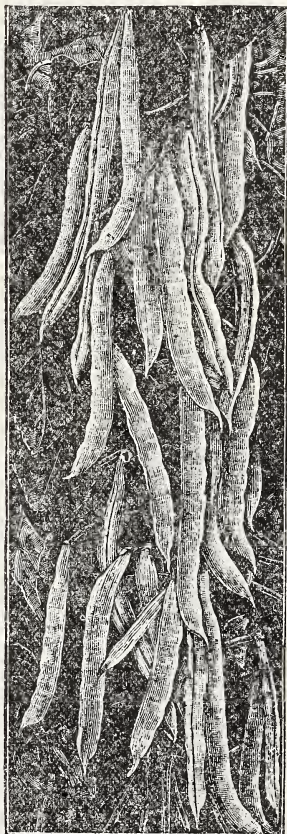
FIELD BEANS

IMPROVED NAVY.—Grown for use as shell beans in winter. Use one-half bushel per acre for field crop. Our stock is especially saved for seed purposes, and is superior. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 30c; postpaid. See first page price list for quantity price.

GREAT NORTHERN.—Beans white, kidney shape, and larger than navies. Extra quality. Very prolific. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 30c; postpaid. Not prepaid, 20c per pound.

RED KIDNEY

A very popular variety grown as a field crop. Largely used for canning in mature form. Beans are large, deep red color and kidney shape. Grow good size, sturdy plants and yield heavily. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 30c; postpaid. See first page price list for quantity price.



OLD HOMESTEAD.

TABLE BEETS

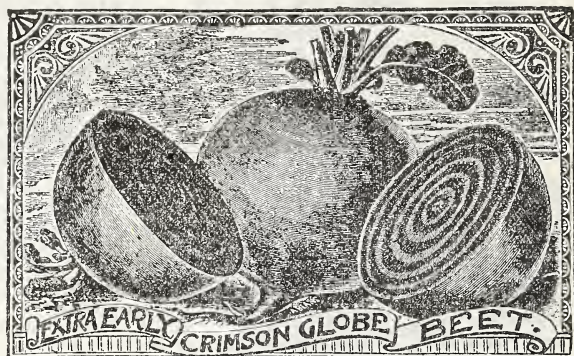
(One oz. sows 50 ft. of drill; 4 to 6 pounds for one acre.)

For early, sow as soon as ground can be worked, and from May until August for general crop, in drills 15 inches apart and 1½ inches deep. As the plants grow, thin to 6 inches in drills. Young plants make excellent greens. The soil should be rich. Hoe often, taking care not to bruise the roots.

CROSBY'S IMPROVED EGYPTIAN.—We believe this to be the earliest variety. Regular in shape, smooth with small tops and small tap root. Being a rapid grower it may be sown outside as late as the first of August. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

EARLY CRIMSON GLOBE.—Very early, of spherical form. Skin very smooth and it is as handsome a beet as you can imagine. It is a rich, deep red color, shading to purple. Its flavor cannot be surpassed. When cooked it is of even dark color throughout, and is attractive on the table. Uniform shape and size. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

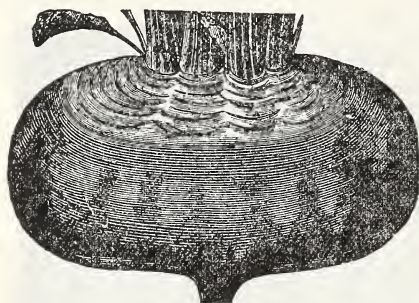
DETROIT DARK RED.—One of the best varieties for main crop. Roots are round, very smooth, of good size, and for table use is unexcelled. Skin is deep blood red; flesh is dark red and is sweet and tender. Very popular. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00.



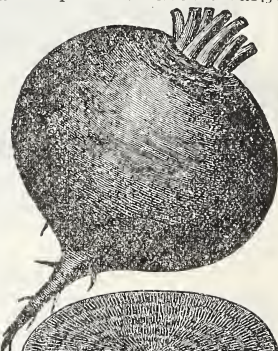
EARLY WONDER.—The earliest of the round globe-shaped beets. Splendid bright color and uniform in size and shape. A very desirable variety for the market gardener. Pkt., 5c; oz., 20c; ¼ lb., 40c; lb., \$1.25.

MARKET GARDENERS.—One of the best. Very symmetrical, with small tap root. Grows large and makes a good beet for the winter. One sowing produces early beets for the market and main crop for winter use, color deep blood red, fine grained. Pkt., 5c; oz., 20c; ¼ lb., 40c; lb., \$1.25.

GIANT LUCULLUS CHARD.—Leaves are beautifully curved and of soft, clean shade of green. The thick, broad stalks are as large as rhubarb. Prepared the same as asparagus, or can be used for "greens." Pkt., 10c; oz., 20c; ¼ lb., 40c; lb., \$1.25.



CROSBY'S IMPROVED EGYPTIAN



DETROIT DARK RED

Mangels and Sugar Beets FOR STOCK

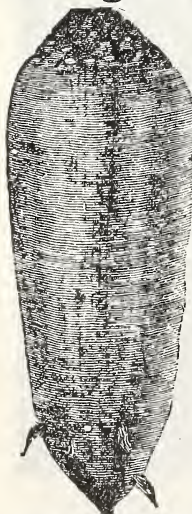
MAMMOTH LONG RED.—Unexcelled for yielding and feeding qualities. Grows to a very large size. Very uniform, smooth and of good shape. Should be grown on deep, loose soil. Per oz., 10c; ¼ lb., 25c; lb., 55c. Not prepaid, 5 lbs. at 45c per lb.

GIANT SLUDSTROP.—The prize variety in Denmark. Tankard shape, color reddish yellow. Grows half out of the ground and is easy to harvest. Per oz., 10c; ¼ lb., 25c; lb., 70c. Not prepaid 5 lbs. or more at 50c per lb.

GIANT HALF SUGAR MANGEL.—A hybrid or cross between the Mammoth Long Red and Sugar Beet, and for feeding we have found it superior to either. As heavy a yielder as the mangels and equally as smooth. Per oz., 10c; ¼ lb., 25c; lb., 60c. Not prepaid, 5 lbs. or more at 50c per lb.

GOLDEN TANKARD.—Other mangels cut white, circled with yellow, but this is of a rich, deep yellow throughout. A heavy cropper, and on account of shape the roots can grow close in rows. Oz., 10c; ¼ lb., 25c; lb., 60c. Not prepaid, 5 lbs. or more, 50c lb.

KLEIN-WANZLEBEN SUGAR BEET.—Cultivated for beet sugar factories; yields 15 to 20 per cent of sugar. Roots straight, tapering evenly and somewhat screw shape. The sugar makes it of great value for feeding. Per oz., 10c; ¼ lb., 25c; lb., 70c. Not prepaid, 5 lbs. or more at 60c per lb.



GROW MANGELS, CARROTS, RUTA BAGAS AND OTHER ROOTS FOR YOUR LIVE STOCK

CABBAGE

(One ounce will produce about 3,000 plants. Set 8,000 to 10,000 plants per acre, of early sorts, and 6,000 of large, late kinds.)

The cabbage requires a deep, rich soil and thorough working to insure good, solid, full-sized heads. Sow early sorts in hotbeds about six weeks before time to set out the plants in the field or garden. Transplant to rows three feet apart. Our packets contains about 800 seeds. Slug Shot will kill insects and worms.

EARLY JERSEY WAKEFIELD.—Considered by many gardeners the very best first early variety. Of large size for so early a kind and is certainly deserving of its great popularity. Heads hard and solid, and have few outside leaves. Our seed is highest quality. American grown. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

WASHINGTON WAKEFIELD.—A fine variety, a trifle later than Jersey Wakefield; produces much larger heads, of perfect pyramidal shape, very solid, with few outside leaves. It grows remarkably uniform. For market or family garden. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

GOLDEN ACRE.—An extra early round head variety, specially desirable for the market gardener. Does not make such large heads as Copenhagen, but can be grown more closely together. It is just the right size for the early city market, or family use. Claimed to be disease resistant. Pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.00; lb., \$7.00.



BUGNER'S BALLHEAD.—A strain of Danish Ballhead selected to resist yellows and to produce heads of large size. Close texture and long keeping quality. Perfected by a Chicago gardener and offered as the best late cabbage. We recommend it very highly. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$2.00; lb., \$6.00.

SUREHEAD.—Larger than Flat Dutch, more compact and heavier. Will make good heads under adverse conditions. We offer a splendid strain of this popular variety. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.

PERFECTION DRUMMOND SAVOY.—An autumn cabbage with crumpled leaves. Our strain is the best of this type. Heads large, solid and make a good crop. Savoy has a richer flavor than common kinds. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.00.

MAMMOTH RED ROCK.—Is the largest of the red cabbages, solid, heavy, and a good keeper. Color is rich, dark red, so desirable for pickling uses. Heads are solid and weigh 10 to 12 lbs. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lbs., \$1.00; lb., \$3.00.

CHINESE CABBAGE

PE TSAI.—Produces a long top or head 12 to 15 inches long, which blanches to a beautiful clear white. Treat as late cabbage. Leaves are large, have broad ribs and are very tender. Heads frequently weigh six pounds. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 75c; lb., \$2.25.

LUNG BOK.—Shorter and thicker than Pe Tsai. An improved type. For fall and early winter. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.



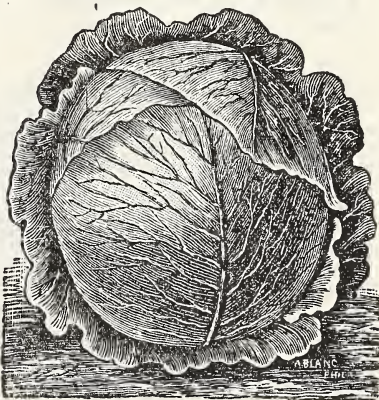
COPENHAGEN MARKET

COPENHAGEN MARKET.—A splendid early round head cabbage. Matures as early as Jersey Wakefield, has few leaves and is remarkably hard and solid. Grows compact, takes but little room and matures with a short stem. Both type and quality are thoroughly fixed. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.25; lb., \$4.

HENDERSON'S SUCCESSION.—An excellent variety of large size and with flat head maturing in midsummer. It can be brought to perfection in the hottest weather or used as an autumn or winter crop. Heads 10 to 12 inches in diameter, frequently larger, average about 13 lbs. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

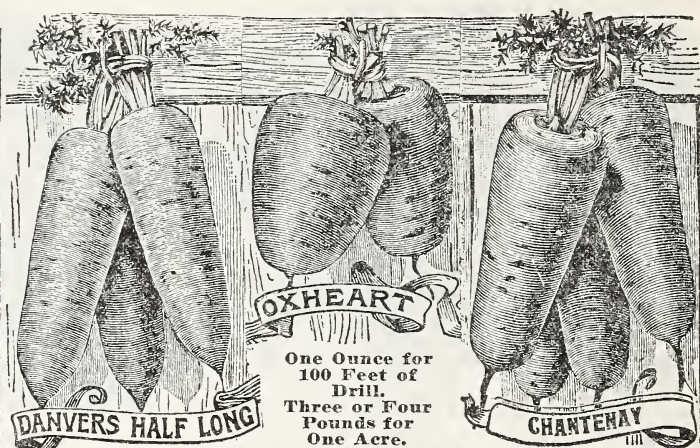
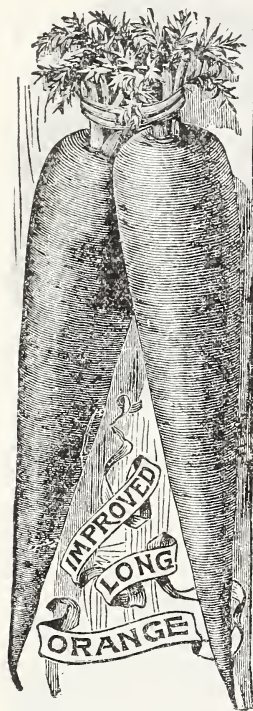
PREMIUM FLAT DUTCH.—This well known variety is still the standard winter kind. Heads are large, solid and a first-class keeper. Our strain is given extra care in selection to maintain its even type and sure heading quality. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

IMPROVED DANISH BALLHEAD, or Hollander.—This variety has been selected and perfected for more than 50 years by the Danish gardeners. They grow it almost exclusively for winter cabbage. Heads round, good sized, solid and very fine grained. Has but few outer leaves. A good keeper, tender and crisp. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.



DANISH BALLHEAD

CABBAGE SHOULD BE AVAILABLE ALL THE YEAR ROUND. IT IS EASY TO GROW



CARROTS

A nutritious succulent food in the winter for cattle, horses, sheep, and pigs. For early, sow in the spring as soon as ground can be worked, in drills fourteen inches apart, covering one-half inch; thin plants to three or four inches apart in row. For field culture rows should be of sufficient distance for horse cultivator; sow from April to July. A light, sandy loam, deeply tilled, is best.

EARLY SCARLET HORN.—Favorite extra early variety, Orange-scarlet, fine grained, and agreeable flavor. Top small, short, stump-shaped root; grows in any soil. Very desirable for the home garden. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.25.

NEW MODEL.—A new variety of great merit. It is a selection from Chantenay with bright red color, perfect half-long shape, and practically coreless. Specially recommended for market gardeners. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.50.

OXHEART, or Guernsey.—Intermediate between Half-Long and Horn sorts; diameter 3 to 4 inches, beautiful shape; rich orange color. Easily pulled, early as any, best quality all season. Cut tops with scythe; pull with potato hooks. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

DANVERS.—Is in form about midway between the Long Orange and Shorthorn class, growing generally with a stump root. Rich dark orange color, large size, smooth and flesh of very close texture with little core. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

CHANTENAY.—Most desirable early variety for bunching and, although a trifle later than first earlies, will yield much handsomer roots and larger crop. Splendid variety for market or feeding purposes. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

IMPROVED LONG ORANGE.—Desirable for garden or field. Grows to large size, averaging 12 inches in length and 3 inches in diameter at the top. This is the standard long variety, preferred to Victoria by some because of its deeper orange color. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.00.

VEGETABLE PLANTS POSTPAID PRICES

Cabbage—25 for 25c; 100 for \$1.00.
Cauliflower—Doz., 25c; 100 for \$1.50.
Celery—Doz., 20c; 100 for \$1.00.
Egg Plant—Doz., 25c; 100 for \$1.50.
Pepper—Doz., 25c; 100 for \$1.50.
Sweet Potato—100 for 75c; 300 for \$2.
Tomato—Doz., 25c; 100 for \$1.50.

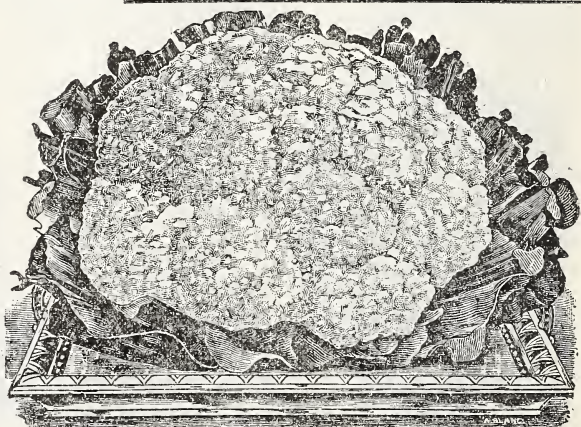
CAULIFLOWER

(One ounce will produce about 3,000 plants.)

One of the most delicious of vegetables. Requires similar treatment to cabbage. Does not head well during the hottest weather in summer. Sow the seed early for an early crop and again in June or July for late heads. Our Cauliflower seed is grown in Denmark and is the best produced.

HENDERSON'S EARLY SNOWBALL.—Considered the earliest and more certain to make a head than any other sort. Its dwarf habit and short outer leaves allow it to be planted as close as 18 to 20 inches apart each way. Our stock is extra choice. We believe it to be the best in the world. Pkt., 20c; ¼ oz., 65c; oz., \$2; ¼ lb., \$7.

DRY WEATHER.—A variety which stands summer heat better than other sorts. Pkt., 20c; ¼ oz., 65c; oz., \$2.00; ¼ lb., \$7.00.



HENDERSON'S SNOWBALL CAULIFLOWER

EVERY DAIRYMAN SHOULD GROW A CROP OF CARROTS FOR HIS MILCH COWS

CELERY

(One ounce will produce about 6,000 plants.)

For first crop sow early in hotbeds, or in boxes in the house, in rich, moist soil, covering seed very lightly. For main crop sow in open ground in April. If the weather is hot and dry protect with light covering of hay or straw. Stir soil when plants are well up; thin out and transplant so they stand about an inch apart in the row. If they grow too rapidly, shear tops off when about 4 or 5 inches high. For main crop set out between June 15th and July 15th, in rows three feet apart and six inches apart in the row. Firm the earth well when setting and they will root better. Keep clear of weeds.

GOLDEN SELF-BLANCHING.

—By far the most popular sort; of medium earliness and dwarf compact habit, with thick, solid, heavy ribbed stalks which blanch easily to a clear, waxen yellow. Grown in rich, moist soil, the stalks are numerous and large, with a solid heart of beautiful yellow. Pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$1.75; lb. \$6.00.

WHITE PLUME.—Stalks, portions of the inner leaves and heart naturally white, and become fit for use by simply tying up closely with soft twine. More used than any other by gardeners. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00; lb., \$3.00.

GIANT PASCAL.—A late variety of superior keeping qualities. Very large, solid and crisp; a rich, nutty flavor. Blanching easily. The heart is golden yellow and very attractive. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00; lb., \$3.00.

GIANT PRAGUE CELERIAC.—Instead of producing long leaf stalks like ordinary celery it has a turnip-like root with true celery flavor. Used in soups, stews and for all culinary purposes in place of ordinary celery. This is the largest, smoothest and best of the turnip-rooted varieties. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb., \$1.00; lb., \$3.00.

Canning Club Collection

Eight choice garden fruits for pickling, canning and preserving. Fully described in this catalogue. Consist of one packet each of Ground Cherry, Garden Huckleberry, Citron Melon, Vine Peach, Mammoth Dill, Pimento Pepper, Golden Nugget Tomato and Chicago Pickle Cucumber. Price 50c postpaid.



GIANT PASCAL CELERY

CHICORY

LARGE ROOTED.—Used as a substitute for coffee. Cultivated the same as carrots. Take up roots in the fall, cut in small pieces and let dry. When wanted for use it is roasted and ground like coffee. Pkt. 10c, oz. 25c.

WITLOOF.—A type of chicory which is used like the common sort for coffee substitute, and the roots are also planted in winter indoors or outside in spring to produce the tops as shown in the illustration. These are used like asparagus and for making salads. Pkt. 10c, oz. 40c.

COLLARDS

(One ounce for about 3,000 plants.)

Collards are very largely used as "greens" in some parts of the country, especially in the South. They are a form of loose-headed cabbage.

GEORGIA.—The most satisfactory variety for general use. Pkt. 10c, oz. 20c, lb. 50c.

CRESS

EARLY CURLED.—A well known salad. Splendid for garnishing meats and flavoring soups. Grows quick. Sow at intervals all season. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c.

TRUE WATER.—Sow seeds along the running water. Preferred by many people to Parsley for garnishing on account of its more piquant flavor. Pkt. 10c, oz. 40c.



WITLOOF

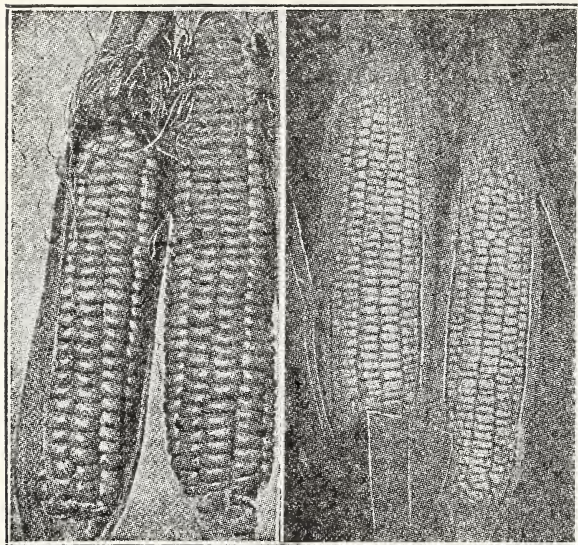


CORN SALAD.

CORN SALAD

Nice winter salad. Sow in September in drills. Before cold weather cover with straw or leaves. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

CELERY IS A GARDEN DELICACY THAT ANYONE CAN RAISE. TRY IT THIS YEAR.

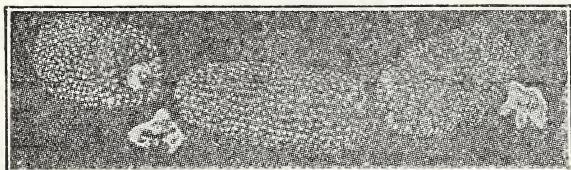


GOLDEN BANTAM

EARLY SUNRISE

CHAMPION EARLY.—Earliest large corn, maturing only a few days later than the small eared sorts and producing large 12-rowed ears 8 to 10 inches long. Pure white kernels with white cob, very sweet and tender, usually producing two ears to the stalk. Unsurpassed for market gardening or family garden. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 30c; postpaid. Not paid, 25c lb.

EARLY EVERGREEN.—Early strain of Stowell's Evergreen with all good qualities, 10 days earlier. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 30c; postpaid. Not paid 25c per lb.



AUSTRALIAN HULLESS POP CORN

POP CORN FOR SEED

Pop Corn is a profitable crop. Grow a small plot for your own use. The demand is growing all the time.

AUSTRALIAN HULLESS.—Dwarf-growing and heavy yielder of attractive ears, peculiar in form, being nearly as thick as long. Kernels are long and slim, pearly white in color. Its crowning merit is its popping quality, fine flavor and absence of hull when popped. Grown extensively and commands the highest price and most ready sales. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 35c, postpaid. Not prepaid, any quantity at 25c per pound.

MONARCH WHITE RICE.—A fine strain of large rice pop corn and has been bred up to wonderful productiveness. Bears three to six ears per stalk and yields 1,800 to 2,500 lbs. per acre. Grain is large and pops to great size. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 3 lbs., \$1.00. Not prepaid, any quantity at 25c per lb.

QUEEN'S GOLDEN.—Large ear and large, smooth grain of a lustrous golden yellow. Very prolific. Pops splendidly, the general appearance of the popped corn being a rich cream color. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 40c; 3 lbs., \$1.00, postpaid.

SWEET CORN

(One pound will plant 500 hills of four grains. Packets contain about $1\frac{1}{2}$ ounces. Seven pounds for an acre planted in hills. Fifteen pounds per acre in drills.)

IMPROVED GOLDEN BANTAM.

—Most delicious and richest in flavor. Is extremely early, of hardy, vigorous growth, so that it can be planted early. Stalks grow only about four feet high, but they bear two or three good ears six to eight inches long, of handsome yellow color. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 35c; postpaid. Not prepaid, any quantity at 25c per lb.

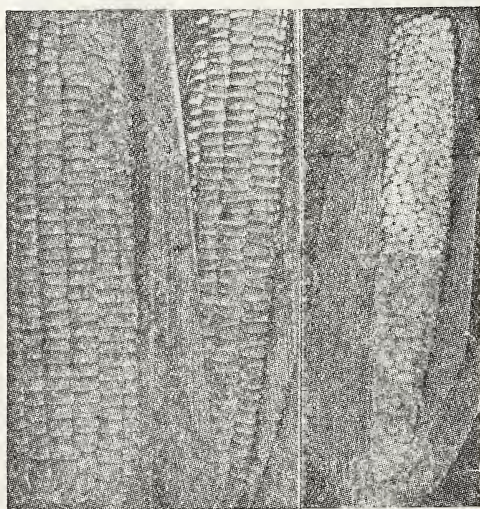
GOLDEN SUNSHINE.—This new variety is larger and earlier than Golden Bantam with the same golden color and exquisite flavor. A very promising new variety. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 35c; postpaid. Any quantity not prepaid at 25c per pound.

EARLY SUNRISE.—A splendid variety of extra early corn for private gardens or market. The ears are larger than Golden Bantam. It is also the sweetest of all clear white early sorts. Gardeners when selling it on the market call it the White Bantam. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 30c; postpaid. Not prepaid, any quantity, 25c per lb.

COUNTRY GENTLEMAN.—It produces 3 to 5 ears to a stalk of luscious quality. The cob is small, giving great depth to the kernels, which are pearly white, and we cannot say too often—surpassingly sweet and tender. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 35c; postpaid. Not prepaid, any quantity, 30c per pound.

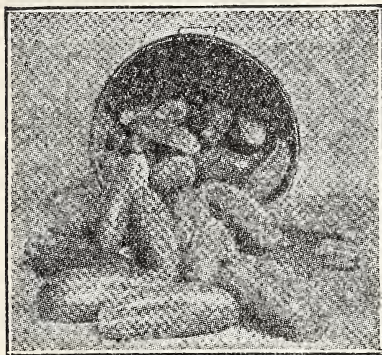
IMPROVED STOWELL'S EVERGREEN.

—The most prominent main crop sort and more largely planted than any other. Ears are large size. Grains deep. Very sweet and tender. Owing to its large size it is largely grown for feeding. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 30c; postpaid. Not prepaid, any quantity, 25c per pound.



STOWELL'S EVERGREEN COUNTRY GENTLEMAN

WE HAVE SEED SWEET CORN AND POP CORN OF EXTRA QUALITY THIS SEASON



PERFECT WHITE SPINE



IMPROVED LONG GREEN

CUCUMBER

(One ounce will plant 50 hills, two pounds per acre.)

Cucumbers succeed best in a rich, loamy soil. For first early, sow in hotbeds, in berry boxes or in small flower pots, six weeks before they can be set out in open ground. When danger of frost is over transplant in hills four feet apart each way. For general crop plant in open ground in May, about twelve seeds in a hill; when danger of bugs is past thin to four strong plants in a hill. For pickling plant in June. Sprinkle vines with Pestroy or Tobacco Dust, or use Slug Shot, to protect them from bugs.

EARLY FORTUNE.—Early, fine flavored, extra quality, few seeds, dark green, large size. Has all the desirable qualities of an early cucumber. Pkt., 10c; oz., 15c; ¼ lb., 50c; lb., \$1.50.

DAVIS PERFECT.—Dark, glossy, green, slim and symmetrical, with an average length of 10 to 12 in. They hold color till nearly ripe when they turn white without a yellow streak on them. Quality fine; very tender, brittle and of exceptional flavor. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.

PERFECT WHITE SPINE.—This strain is pronounced by good judges superior to all others. Fruit even and good size, straight, well formed and symmetrical. It is of uniform shape, making it unexcelled for pickling. Immensely productive and keeps a long time. See illustration at left of this page. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

IMPROVED CHICAGO PICKLE.—Medium in size, dark green in color when young. Very prolific; matures early, produces immense number of fine pickles. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

IMPROVED LONG GREEN.—A standard sort. Vine vigorous and productive, forming fruit for the table nearly as early as shorter sort. Produces very fine, firm fruit about 12 inches long. See illustration. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.



DAVIS PERFECT

HERBS

In making up your assortment of seeds for the year don't neglect to order a few varieties of herbs. The chief point is to harvest them properly, which should be done on a dry day when not quite in full bloom, dried quickly and packed closely—entirely excluded from air. Those marked with an asterisk (*) are perennial and give returns yearly when established.

ANISE.—Sweet and aromatic flavor. Pkt., 10c.

BASIL, SWEET.—For flavoring soups, stews, etc. Pkt., 5c; oz., 15c.

BORAGE.—Used for flavoring. Pkt., 5c; oz., 15c.

CARAWAY.—Seeds are used for flavoring bread, etc. Pkt., 5c; oz., 10c.

CATNIP, or Catmint.—For seasoning and medicine. Pkt., 10c; oz., 50c.

CORIANDER.—Seeds used in confectionery. Pkt. 5c, oz. 10c, ¼ lb. 25c.

DILL.—Used in making dill pickles. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

HOREHOUND.—For seasoning and a cough remedy. Pkt., 10c; oz., 40c.

***LAVENDER.**—The dried leaves are used as a perfume. Pkt. 10c, oz. 50c.

MARJORAM, SWEET.—For seasoning. Pkt., 10c; oz., 40c.

***ROSEMARY.**—Aromatic leaves used for seasoning. Pkt., 10c; oz., 40c.

***SAGE.**—Much used for dressing. Pkt., 10c; oz., 40c; ¼ lb., \$1.00; lb., \$3.00.

SUMMER SAVORY.—Pkt., 5c; oz., 30c.

***THYME.**—Leaves and young shoots used as seasoning. Pkt., 10c; oz., 50c.

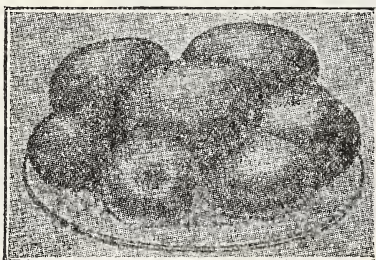
***WORMWOOD.**—Leaves are used for medicinal purposes. Pkt., 10c.

MIXED VARIETIES.—A mixture of all the above. A nice garden assortment. Pkt. 5c, oz. 25c, ¼ lb. 65c.

VINE PEACH

The vine is somewhat similar to the muskmelon vine, and requires the same cultivation. The fruit is about the size of a large peach, oval shaped, and is of a bright orange yellow color, somewhat russety. For sweet pickles, pies or preserving they are superb. A jar of these cut in halves and cooked in syrup presents a beautiful and tempting appearance. Pkt., 10c; oz., 25c; ¼ lb., 60c.

Note our Canning Club Collection, eight choice garden fruits, page 11.



VINE PEACH

EGG PLANT

Start quite early in a hotbed or box in the house, which must be kept warm. Transplant late to open ground, two feet apart.

IMPROVED NEW YORK.—Our strain of this leading market variety we believe to be unsurpassed. Very large size, skin deep purple, flesh, white, of excellent quality. Very productive. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.50.

BLACK BEAUTY.—The earliest variety in existence, being much earlier than the above. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.50.

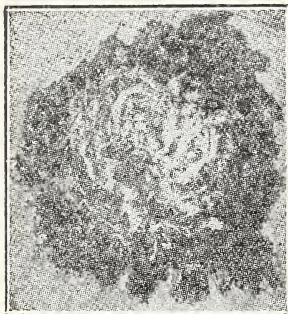
ENDIVE

(One ounce will sow about 60 square feet.)

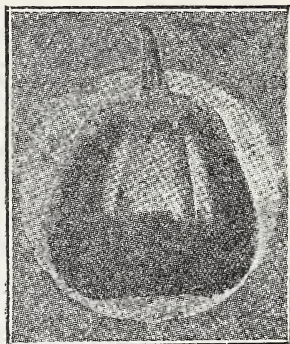
Preferred to lettuce by many. Should be more largely used. One of the best and most wholesome salads for fall and winter. Sow in April for early; in June or July for winter. When 8 inches long tie together with a string near top to blanch.

BATAVIAN.—Has smooth leaves and makes a handsome plant. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 50c.

GIANT FRINGED.—Also called winter lettuce. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.



GIANT FRINGED ENDIVE



NEW YORK EGG PLANT

GROUND CHERRY

IMPROVED YELLOW.—Each year adds to the popularity of this little fruit. They grow well on almost any dry soil, are easier raised than the tomato, are prolific bearers and luscious fruit. For sauce or pies they are excellent. They make delicious preserves and when dried in sugar are better than raisins for cakes and puddings. Will keep for a long time in the husk in a cool place if spread thinly. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.

GARDEN HUCKLEBERRY

Grows about three feet high and just loaded with clusters of berries, which are jet black when ripe. Make delicious pies, preserves and jams. Not edible raw. Pkt. 10c.



GARDEN HUCKLEBERRY

KOHL RABI

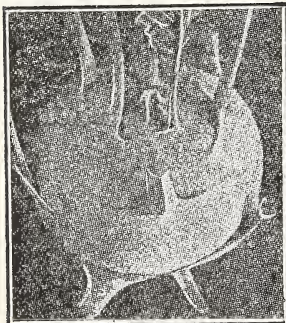
Most excellent vegetable, intermediate between the cabbage and turnip. Cultivate like cabbage.

GOLIATH PURPLE.—A new sort of immense size, solid and sweet. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 65c, lb. \$2.25.

EARLY WHITE VIENNA.—The flesh is white and tender, and it is a good market sort. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 65c, lb. \$2.25.



GROUND CHERRY



WHITE VIENNA KOHL RABI

KALE

EXTRA CURLED MOSSBACK.

—A most attractive variety; fine crimped leaves, light green, fine for garnishing. Best cooking. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

DWARF GERMAN GREEN, or Siberian.—A very popular variety. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

LEEK

Sow seed thinly in drills early in spring; thin out to stand six inches apart in the row. Belongs to the onion family and is grown in the same manner.

LARGE ROUEN.—Largest and most uniform sort. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

GOURDS

Cultivate like cucumbers; they may be trained over lattice, fences, etc.

JAPANESE NEST EGG.

—Grows almost uniformly to the size, color and shape of a hen's egg. The shells are hard and make the very best nest eggs. Pkt. 5c, oz. 20c.

DIPPER.

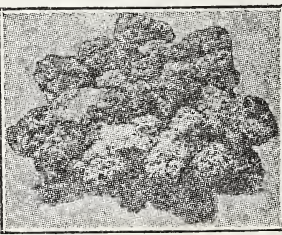
—Makes a light, convenient dipper. Dippers of various sizes of a capacity from a pint to a quart and a half, can be had from a few vines. Pkt. 5c, oz. 25c.

LUFFA, or Dishcloth.

—Has a peculiar lining, which is sponge-like, porous, tough, elastic and durable, making a natural dishcloth or sponge. Pkt. 5c, oz. 25c.

MIXED UTILITY.

—Seeds of the above mixed. Very popular item with our customers. Really useful in many ways. Easily grown. Pkt. 5c, oz. 20c.



EXTRA CURLED MOSSBACK KALE

THE ITEMS ON THIS PAGE ARE DESIRABLE IN EVERY GARDEN—TRY THEM

LETTUCE

(One ounce will sow 100 feet of drill.)

Lettuce should be sown thinly any time from early spring until the middle of August. The soil should be very rich. Lettuce may be transplanted like cabbage. Set the plants a foot apart in rows two feet wide. Cultivate often.

EARLY CURLED SIMPSON.—A great variety for the backyard garden where only a small plot is available. Not called a heading sort, but produces pale green, somewhat crumpled leaves and is usable in all stages. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

BLACK SEEDED SIMPSON.—This is the standard variety with market growers who grow lettuce under glass or in frames. Makes large, loose heads of light colored, brittle leaves. Can be sown outside for first early use but will not stand hot summer weather. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

ICEBERG.—Has large, curly, light green leaves, sometimes slightly tinged with red. Has a rich, well-bleached center; stands the summer sun without blighting. Belongs to head-lettuce type, but is fit for cutting any time and by thinning a succession is available. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

PRIZE HEAD.—Leading brown-leaved lettuce. Tender leaves, light reddish brown. Heads large and rather loose, with very good flavor. We sell more of this than any other brown-leaved variety. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

IMPROVED HANSON.—As a head lettuce has no superior, either for home use or for market. Does well in hotbed or greenhouse. Can be used as a leaf lettuce but is a splendid header. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

GRAND RAPIDS.—A splendid loose leaf lettuce. Appearance is attractive and striking. Does not form a head but has leaves of pale green color. Finely curled and crumpled. Grows upright. A favorite for forcing. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.

NEW YORK.—Heads often 15 and 16 inches across. The interior is beautifully blanched, creamy-white, crisp, tender and delicious. Very slow to run to seed and a sure header. As a main summer crop, hot weather lettuce, it is in every way desirable and has no equal. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

ROMAINE.—Leaves rather light green in color, shading to white when blanched. More self-folding than other cos lettuce, so it is not necessary to tie the leaves in order that it may blanch. It is more brittle if tied loosely. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

MUSHROOMS

The ease and certainty with which a crop of mushrooms can be grown and the astonishing success of so many induces us to call special attention to the subject. We recommend mushroom spawn both for market and private planter. Directions for culture sent on application. Per brick, by mail, 40c. Not prepaid. 5 bricks, \$1.25; 10 bricks, \$2.25; 100 bricks, \$20.00. Shipping weight, per brick, about $1\frac{1}{4}$ lbs.



MUSHROOMS

MUSTARD

A pungent salad used for greens. Sow thickly in rows. One ounce sows about 75 feet of drill.

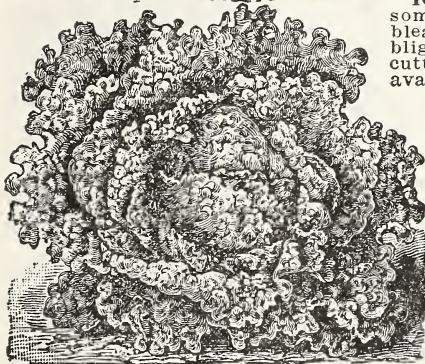
OSTRICH PLUME.—Leaves are long, ruffled, frilled and curved gracefully as an ostrich plume; desirable for garnishing. Can be cut early. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.00.

SOUTHERN GIANT CURLED.—This is the true curled leaf variety so popular in the South for fall planting for early spring salad. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 75c.

WHITE ENGLISH.—Seeds are white and is preferred by housewives for pickling on that account. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 60c.



ICEBERG LETTUCE



BLACK SEEDED SIMPSON



NEW YORK LETTUCE

GROW LETTUCE FOR GREEN FEED FOR POULTRY. THEY WILL THRIVE UPON IT.

MUSKMELON

(One ounce will plant about 80 hills, 2 lbs. to acre.)

Muskmelons require a rich, well-drained soil. They will not grow where it is wet. Plant as early as safe from frost; cultivate until vines cover the ground. Usually planted in hills 4 to 6 feet apart.

HALE'S BEST.—The latest improvement in Muskmelons. Grows much larger than Rocky Ford and has extra thick flesh. They are firm, heavy and carry to market long distances. Flesh bright salmon, extremely well flavored, with heavy sugar and spicy content. Has ripened fruits in 68 days from planting. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.00.

EARLY BIRD.—An extra early choice sort extremely popular in Des Moines. Shape is shown in illustration. Size is larger than Rocky Ford, while quality is superior to any strain of basket melons with which we are acquainted. It is the first to ripen. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.75; lb., \$5.00.

BURRELL GEM.—About the same size and shape as Rocky Ford, but has rich, golden yellow flesh of most delicious flavor; solid and a desirable shipping sort. Seed cavity is very small. Average about 6 inches long, $4\frac{1}{2}$ inches in diameter, and weight 2 $\frac{1}{4}$ lbs. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

THOROUGHbred ROCKY FORD.—Slightly oval in shape, flesh thick, of light green color, and fine, juicy, luscious flavor. Very early and wonderfully productive. Our seed is from pedigreed stock of this sort. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

BENDER'S SURPRISE.—See illustration. It has orange flesh of rich, spicy flavor. A fine variety for home gardening. It is classed among the large melons and size makes it desirable for local marketing. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., \$1.50.

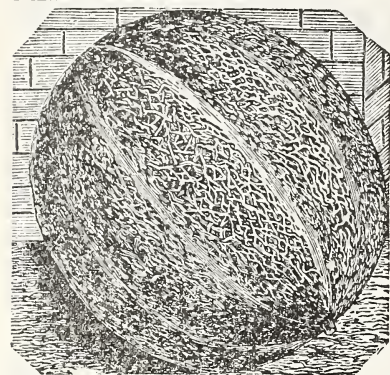
IMPROVED GREEN NUTMEG.—Fruit of medium size, light green, very rich and melting, of exquisite flavor. Very productive. A standard sort for many years, and it is one of the best main crop sorts. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

IMPROVED EARLY HACKENSACK.—Largest early muskmelon. Good quality, firm and heavy; deeply netted; flesh is light green. Shape fine and is

splendid market melon, as it ships well. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

GOLDEN HEART.—Size and shape is just right, so it may be served cut in halves. Flesh and color is deep orange, extremely thick. As a shipper, uniform, like "peas in a pod." Netting is ideal, heavy and close, without a superior. Extra quality. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

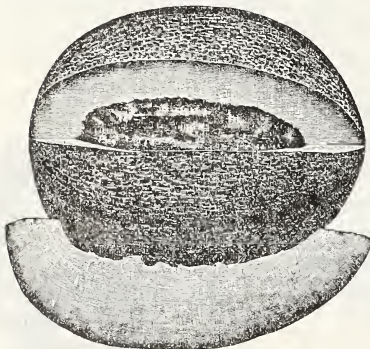
TIP TOP.—(Orange Flesh.)



HALE'S BEST



EARLY BIRD



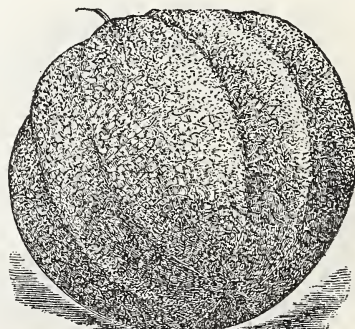
BENDER'S SURPRISE

A fine, nearly round melon of attractive appearance. It is sweet, juicy and delicious. Flesh firm but not hard. Of medium to large size; evenly ribbed and moderately netted; strong grower, heavy yielder, and handsome. One of the best. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.25.

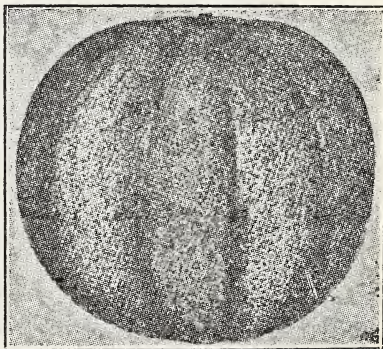
OSAGE.—Flesh salmon color, sweet, spicy, very thick, delicious to the rind. Seed cavity very small; seldom one of poor quality is found. Medium size, oval, slightly ribbed. Skin thin, dark green color and covered more or less with shallow netting. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.25.

BANANA.—Attains a length of from $1\frac{1}{2}$ to 3 ft.; 3 to 4 inches thick. Flesh is very thick, of salmon color. It looks almost like one, hence its name. Has a peculiar flavor, differing from ordinary muskmelons, and by some considered superior. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

HONEY DEW.—Every melon a good one. Flesh light green and sweet as honey. Will keep good for months. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.



IMPROVED GREEN NUTMEG



TIP TOP

A HOME GROWN MELON IS FAR SUPERIOR TO ONE PURCHASED IN MARKET

WATERMELON

A light, sandy soil, with good exposure to the sun, is the best for watermelons. It should be prepared deep, but receive shallow cultivation. Hoe often and thoroughly. Plant in hills 8 to 10 feet apart each way. Plant 8 to 10 seeds in a hill; when danger of insects is past leave but three plants.

COLE'S EARLY—Decidedly the finest variety for the private garden, but is too brittle for long shipment. It is very early and will mature farther north than most other sorts. Of medium size; very productive. Flesh bright red, of granulated, sparkling appearance. Is lusciously sweet and refreshing. Specially valuable for home market. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

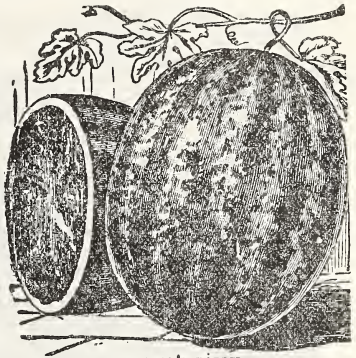
PHINNEY'S EARLY—Similar to Cole's Early but shape is longer. Extra early and extra quality. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

HALBERT'S HONEY—The aristocrat among watermelons. A very early variety; medium size; fine, oblong shape; very prolific and even size; skin handsome dark green; flesh of a rich crimson, fine grained, melting and exquisite flavor. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; lb., \$1.00.

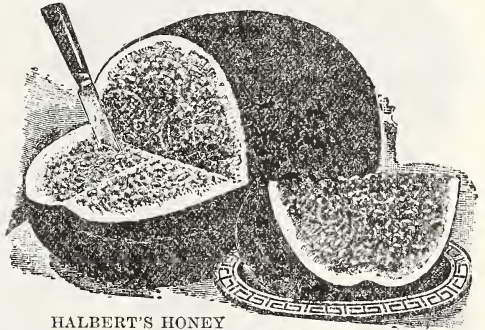
GOLDEN SWEET—The best yellow-fleshed watermelon. It is extremely well flavored and very attractive. In size and shape resembles Monte Cristo, and the bright golden flesh makes it popular. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; lb., \$1.00.

McIVER'S WONDERFUL SUGAR—Famous for sweetness and high quality. Fruits are large. Very handsome, rather light colored, irregularly striped and mottled with dark green. Rind is rather thin but tough; a good shipper. Flesh is delicate red, entirely stringless and tender. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

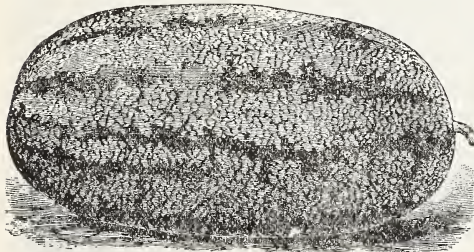
IRISH GREY—A light-colored Tom Watson. Very popular for shipping and of excellent quality. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.



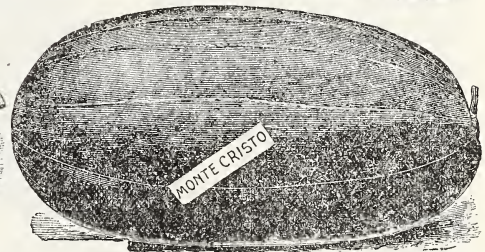
COLE'S EARLY



HALBERT'S HONEY



McIVER'S WONDERFUL SUGAR



MONTE CRISTO, or Kleckley's Sweets—

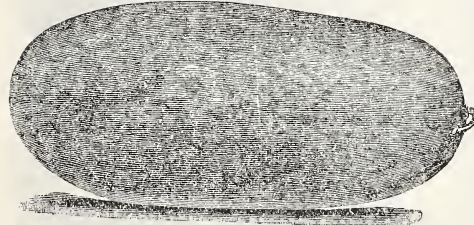
A wonderfully popular variety everywhere. We pronounce this one of the sweetest, juiciest, most delicious melons, faintly striped, flesh bright red and peculiarly rich, crisp and pleasant flavored. It ripens early, is of good size, is a good shipper and a long keeper. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

TOM WATSON—A leader among melons, because of quality and shipping excellence. It is large, oblong, skin dark green, with thick netting on entire surface, quite distinct from other varieties. Averages 18 to 24 inches long and 10 to 12 inches in diameter and will weigh 50 to 60 pounds. Rind is thin but tough and flesh is bright, attractive red, crisp, sweet and delicious. Seeds white, tipped brown. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

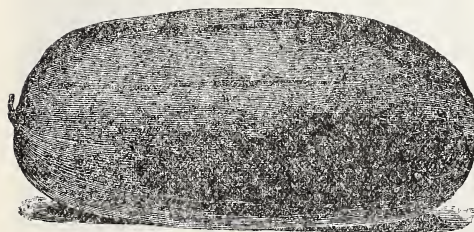
CITRON MELONS

COLORADO PRESERVING—This is a large-fruited strain of Citron for preserving. Flesh clear white and very solid. Green seed. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c.

RED SEEDED CITRON—Round, dark green, striped and mottled with light green. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c.



IRISH GREY



TOM WATSON

WATERMELONS ARE BEST WHEN RIPENED ON THE VINE AND PICKED FRESH

ONIONS



ONION SETS

Raised from seed. One pound equals one quart.

YELLOW.—The most popular. Per lb., 30c, postpaid; 10 lbs., \$2.75.

RED.—Per lb., 30c, postpaid; 10 lbs., \$2.75.

WHITE.—Per lb., 35c, postpaid; 10 lbs., \$3.00.

MAMMOTH PRIZE-TAKER.—Grows to mammoth size and matures perfectly solid, fine grained and keeps well. Straw color, globe shaped and produces immense crops. Pkt., 10c; oz., 25c; ¼ lb., 90c; lb., \$2.50.

WHITE PORTUGAL OR SILVER SKIN.—Standard white variety. Bulbs grow flat to good size, ripen early and evenly. Flesh mild and sweet; skin clear silvery white, very handsome. Pkt., 10c; oz., 30c; ¼ lb., 90c; lb., \$3.00.

LARGE WHITE GLOBE.—The handsomest market variety, beautiful, clean, pure silvery white bulbs of large, even size, globe shape, mild and pleasant flavor. The best white sort. Pkt., 10c; oz., 35c; ¼ lb., \$1.00; lb., \$3.00.

MAMMOTH SILVER KING.—The largest white onion. Flattened but thick. Often weigh from 2½ to 4 lbs. each. Beautiful silvery white; flesh snowy white, sweet and tender. Pkt., 10c; oz., 30c; ¼ lb., \$1.00; lb., \$3.00.

Bermuda Onion Plants

Postpaid, per 100, 25c; 500 for \$1.00.

OKRA

(One ounce will sow about 80 feet of drill.)

Sow in May, in drills 2 inches deep, leaving plants 2 to 3 feet apart. Pick pods while very young; slice crosswise before cooking.

WYRICK'S NEW GIANT.—Pods are vivid green, 8 to 9 inches long. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

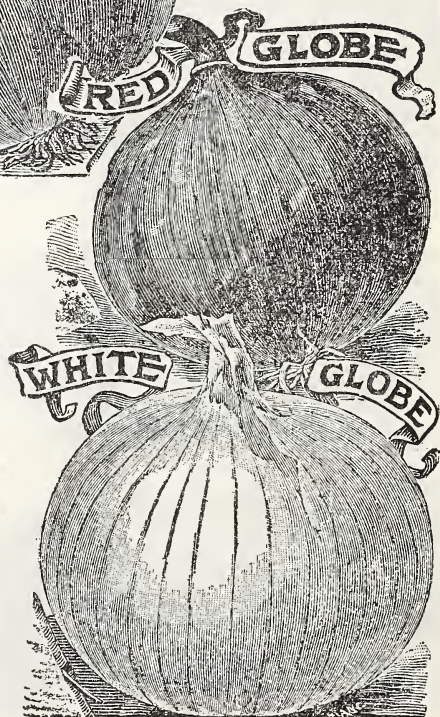
WHITE VELVET.—Plants dwarf. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

CULTURE.—One ounce will sow about 100 feet of drill; 4 pounds will sow one acre. The soil for onions should be a rich loam thoroughly enriched with well-rotted manure and pulverized before sowing the seed. It should be as free from weeds and grass as possible. As early as the ground can be worked in the spring, sow the seed in drills 14 inches apart, covering one-half inch. Commence hoeing as soon as the rows can be seen; skim the ground over the surface; avoid stirring deeply, and work the soil away from the bulbs. At second hoeing weed carefully and thoroughly by hand. For pickles or sets the seed should be sown very thickly and in broad drills, about 50 pounds to the acre for sets, and 15 to 20 pounds for pickling. Will pay to purchase a good drill and hand cultivator.

SOUTHPORT RED GLOBE.—A very handsome variety. It is medium early; grows to a large size, skin deep red, flesh fine grained, mild and tender. Market demands globe-shaped onions more than formerly. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50. By express, 5 lbs. for \$11.50.

LARGE RED WETHERSFIELD.—The standard sort throughout the country; easiest to grow and the surest to make a good crop, being hardy; not subject to decay in very hot or wet weather. Of finest form, skin deep purplish red. The flesh is purplish white, and fine grained. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50. By express, 5 lbs. for \$11.00.

YELLOW GLOBE DANVERS.—Handsome, globe-shaped sort of large size, with yellow skin. Very firm and the best of keepers. Has yielded 1,000 bushels per acre. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50. By express, 5 lbs. for \$11.00.



ONIONS ARE GENERALLY SCARCE AND HIGH IN PRICE. GROW SOME YOURSELF



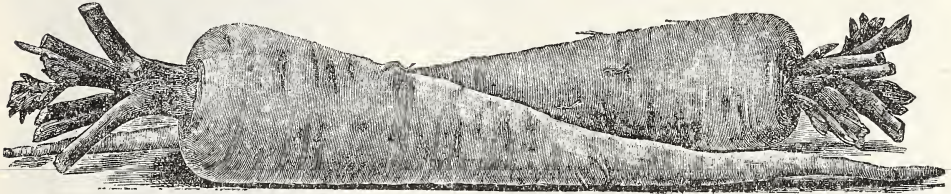
MARKET GARDENER'S PARSLEY.

PARSLEY

(One ounce will sow 150 feet of drill)
Sow early, thinly, in drills, 1 ft. apart, $\frac{1}{2}$ inch deep. For winter use, protect in glass frame or light cellar.

MARKET GARDENER'S—An extra choice stock with dark, green curled, mossy leaves, very productive. Valuable for either garnishing or flavoring. Early variety. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$1.25.

CHAMPION MOSS CURLED—Very select stock, finely crimped and curled. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.00.



PARSNIP

(One ounce will sow 200 feet of drills. Five pounds will sow an acre in drills.)

Sow early in spring in good, rich soil, which has been plowed deep, in drills 15 inches apart, covering half an inch. Thin to 5 or 6 inches apart in rows. They are improved by freezing. May be left in the ground all winter and marketed in spring.

IMPROVED TABLE GUERNSEY—Roots do not grow as long as the Hollow Crown, but are of greater diameter and more easily gathered. Very heavy cropper. Flesh fine grained, sweet and excellent quality; cooks evenly, center being as fine, soft, even quality as outside portions. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; lb., \$1.00.

IMPROVED HOLLOW CROWN—Our strain is smoother and of more even quality than the original; fine grained and excellent. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; lb., \$1.00.

SEED POTATOES

Prices on Potatoes frequently change as the market advances or declines. See Price List, first page this Catalogue.

It is of greatest advantage to potato growers to purchase their seed of us. By using our northern stock you are assured of **early maturity, increased yield and vigorous growth.** There is no longer any doubt that seed potatoes from the Red River Valley surpass those from any other section of the country with the possible exception of the state of Maine. We have for a number of years had our supplies grown in the northern part of Minnesota and Dakota and the comparative tests have each season shown an advantage for the northern seed. This is especially true of the early varieties. They mature earlier, are free from disease and produce more abundantly than home grown stocks. Prices on potatoes fluctuate greatly, but good seed potatoes are always worth more than ordinary table stock.

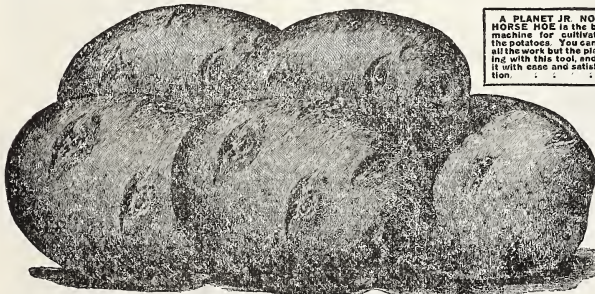


RED PEANUTS

PEANUTS

Peanuts can be grown in Iowa, and everyone should plant at least a few. Make an interesting crop for children.

RED CROSS—The most desirable variety is early as the earliest, most hardy, very prolific and of best quality. Boys, here is a chance for you. Think of growing peanuts in your own garden and having plenty of them to eat. Shell nuts carefully so as not to break inside skin, plant as soon as ground becomes warm, from 2 to 3 ft. apart each way, 4 or 5 to the hill, covering 2 inches. Soil should be deep and mellow. Produce from 25 to 70 bushels to the acre; easily cultivated as corn. Pkt., 10c; lb., 40c; postpaid. By express, 5 lbs. or more at 25c per lb.



FANCY NORTHERN GROWN EXTRA EARLY OHIO

A PLANET JR. NO. 8 HORSE PILE is the best machine for cultivating the potatoes. You can do all the work but the planting with this tool, and do it with ease and satisfaction.

WRITE FOR SPECIAL QUOTATION ON SEED POTATOES IN LARGE QUANTITIES

PEAS

WRITE FOR SPECIAL OFFER ON BUSHEL ORDERS

(One lb. will plant about fifty feet of drill; 2 to 3 bu. per acre.)

Peas mature quickest in light, dry soil, not too rich. May be sown as early as the ground can be worked, and for a succession every two weeks up to July; or, what is better, select several kinds which will form a succession in maturing. Sow in drills 2 to 4 feet apart, according to varieties, and 2 to 3 inches deep for general crop. The wrinkled sorts are marked*. They are more liable to rot if the ground is wet. We are this year offering peas by the pound and the pound prices include postage. Larger lots go by express or freight at customer's cost for transportation.

ALASKA.—Height 2 feet; pods rather small, dark green color, well filled; the earliest pea known, and 90 per cent of pods can be gathered at first picking. This is "June Peas" of the canners. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 30c; postpaid. Not prepaid, any quantity at 20c per pound.

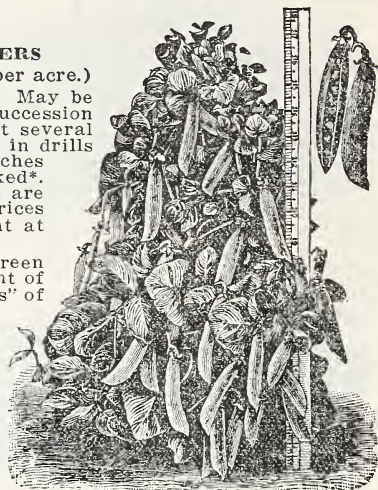
IOWA CHALLENGE.—A well-known standard early pea. Ready to use several days before the early wrinkled varieties. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 30c; postpaid. Not prepaid, any quantity at 25c per pound.

***LITTLE MARVEL.**—A strong vine about 15 inches high, bearing tremendous crops of fair size pods, frequently borne in pairs. Pods $2\frac{1}{2}$ to 3 inches long, containing six to seven large, deep green peas. Has superseded American Wonder. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, any quantity at 30c per pound.

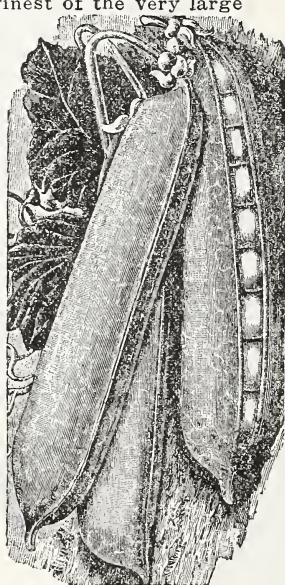
***LAXTONIAN, or Pioneer.**—Finest of the very large podded, early wrinkled peas. Vine is not quite so long as Gradus but the pods are fully as large and there are twice as many of them. Both pods and peas are a rich, dark green and retain this color when cooked. Pkt., 5c; $\frac{1}{4}$ lb., 15c; 1 lb., 45c; postpaid. Not prepaid, any quantity at 35c per pound.

***GRADUS, or Prosperity.**—Extra large and of best quality, nearly as early as the small extra early sorts. Vines grow about 20 inches high. Pods bright green, 4 inches or more in length, well filled. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 45c; postpaid. Not prepaid, any quantity 35c per pound.

***NOTT'S EXCELSIOR.**—The peas are sweet and delicious. Vine grows 18 inches high. Pods are larger and it is far more productive than the Premium Gem. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, any quantity 30c per lb.



PREMIUM GEM.



LAXTONIAN

***PREMIUM GEM.**—For many years the standard dwarf wrinkled pea for the family garden. It only grows 12 to 15 inches high and requires no support. Pods large, dark green, and quality is excellent. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, any quantity at 30c per pound.

***IMPROVED STRATAGEM.**—Preferred because of the immense size of pods and peas and exceptional sweetness and tenderness. Half dwarf sort, 2 to 3 ft. high. It is a vigorous grower and an enormous cropper. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 45c; postpaid. Not prepaid, any quantity at 35c per pound.

***EVERBEARING.**—Splendid main crop variety; bears a profusion of good-sized, well-filled pods; vines seem less affected by mildew than most late peas; make a sturdy growth, $2\frac{1}{2}$ feet tall. Very prolific; quality excellent. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 40; postpaid. Not prepaid, any quantity at 30c per pound.

***TELEPHONE.**—A standard improved now to its limit. Vines very strong in growth, pods of large size, containing 6 to 8 peas each, of medium

green color, closer packed in pod, of delicious flavor; height, $3\frac{1}{2}$ feet. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 40c; postpaid. Not prepaid, any quantity at 30c per pound.

***THOMAS LAXTON.**—Large podded, and a strong grower, producing pods in abundance. Resembles Gradus although the color is darker and pods more blunt in shape. The pods are well filled with large peas; height, 3 feet. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 45c; postpaid. Not prepaid, any quantity at 35 cents per pound.

DWARF GRAY SUGAR.—The best variety of sugar peas which are cooked pods and all. Pods are large, broad and tender. Do not require sticks or support. Ready in 55 days. Cook and serve like green beans. Pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 45c; postpaid. Not prepaid, any quantity at 35c per pound.

WHITE CANADA FIELD PEAS.—Sown with oats at the rate of $1\frac{1}{2}$ bus. of oats and $\frac{1}{2}$ bu. of peas to make early hay. Use a large variety of oats like Green Russian. You can cut 5 tons of choice hay per acre by the Fourth of July. See first page price list for quantity price.



NOTT'S EXCELSIOR

PEPPER

(One ounce will produce about 1,800 plants.)

Sow seed in hotbed early in spring; transplant to open ground when the weather is favorable, in warm, mellow soil, in rows 18 inches apart. Seeds germinate slowly, require considerable heat.

RED CHILL.—Small hot peppers, used for making chili sauce. Pkt, 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

RED CAYENNE.—A long slim pod, quite pungent. Valuable for winter when dried. Best for seasoning, useful for medicine. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

SUNNYBROOK.—A new type extra early variety. Fruits are 3 inches in diameter and 2 inches from stem to blossom end, shaped like a tomato. Bright red, thick flesh, mild flavor. Pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.00.

PIMENTO.—A new and distinct pepper. Perfectly sweet, having no trace of pungency. Plants are loaded with fine, perfectly smooth fruits, medium size and thick meat. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

RUBY KING.—Very large in size, $4\frac{1}{2}$ to 6 inches long by $3\frac{1}{2}$ to 4 inches thick. When ripe are beautiful bright ruby red and always remarkably mild and pleasant to the taste. Splendid for stuffed peppers or mangoes. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

CHINESE GIANT.—Most gigantic of all Peppers. A fine, mild pepper of enormous size, and brilliant, glossy scarlet color. The flesh is mild and unusually thick. Excellent for salad. Pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.00.

LARGE BELL, or Bull Nose.—The standard variety for mangoes or sweet pickles. Fruits large, uniform, thick meat and smooth, very pleasant mild flavor; prolific yield; early. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

GOLDEN QUEEN.—Similar to red mango peppers. When ripe it is a bright, waxy, golden yellow and mild. A favorite for mangoes. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

PUMPKIN

(One ounce will plant 25 hills; 4 lbs. will plant one acre.)

They can be grown separately or with a corn or potato crop, and do not seem to interfere in the least. They are valuable for feeding to stock, and what is a fair without pumpkins, or a Thanksgiving dinner without a pumpkin pie? Planted with corn, two pounds will plant one acre.

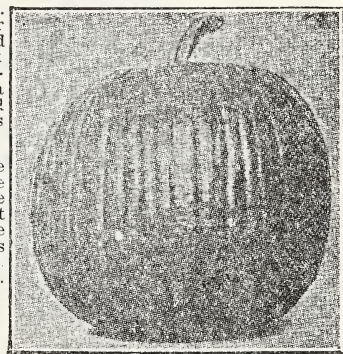
YANKEE PIE.—The noted New England Pie noted New England Pie shape and color as the Connecticut Field but is smaller; very sweet, fine grained and one of the best varieties for table use and for making pies. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

LARGE CHEESE.—Very popular for pies. Quite commonly known as "Sweet Pumpkin." Average about as large as the Connecticut Field but are flat shaped with creamy buff skin and thick golden flesh. Can be grown in the corn like the common cow pumpkin. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c. Any quantity by express or freight, not prepaid, at 50c per lb.

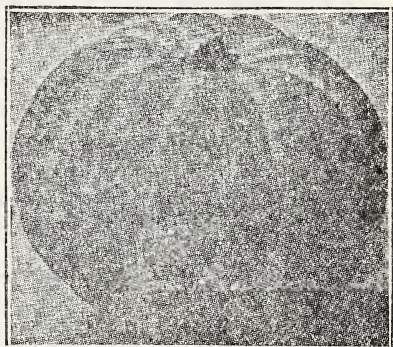
GOLDEN CUSHAW, or Jonathan.—Like the old Cushaw in shape but of a clean old gold color instead of green and white stripe. Flesh is solid, of deep orange color and very rich. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.25.

CONNECTICUT FIELD.—Is the common field or cow pumpkin. More grown than any other variety. Of good quality for culinary purposes. Planted among the corn you get a crop with practically no expense. Our seed is hand selected from large fruits and will give best results. Oz., 5c; $\frac{1}{4}$ lb., 20c; lb., by mail, 60c. By express or freight, not prepaid, any quantity, 50c per lb.

KING OF MAMMOTHS.—The largest variety of true pumpkins. The flesh and skin are golden yellow, fine grained and of good quality. We know of one specimen that reached the enormous weight of 245 pounds. One customer writes us that he grew one that weighed 158 pounds, and on the same vine he had five other pumpkins from 80 to 104 pounds each in weight—over 640 pounds grown from one seed. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$1.75.



YANKEE PIE



LARGE CHEESE

GROW PUMPKINS IN THE CORN—THEY MAKE EXCELLENT FEED FOR LIVE STOCK



RUBY KING



CHINESE GIANT

RADISH

(One ounce will sow 100 feet of drill. Eight to ten lbs. will sow an acre in drill.)

Radish seed should be sown in light, rich soil as early as the ground can be worked, and for a succession, at intervals of two weeks, until midsummer. Radishes must be grown quickly and have plenty of room or they will invariably be tough and pithy. Sow in drills one foot apart and thin to two or three inches apart as soon as the rough leaves appear.

EARLY BIRD.—The earliest radish. With loose soil and proper culture the Early Bird is ready in 20 days from the time of sowing the seed. It is of round or turnip shape, of bright scarlet color and pure white flesh, which is tender, crisp and of best flavor. It has few and short leaves. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

SPARKLER.—Extra early, white tipped, round radish. The contrasting colors being so nearly equal gives a most attractive appearance. Quality unsurpassed; remaining solid and crisp. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

EARLY SCARLET GLOBE.—The standard early round red radish. Of handsome color, crisp, juicy and tender. Forms a small top and

will stand a great deal of heat without becoming pithy. Is the gardener's standby for first early radish. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

FRENCH BREAKFAST.—Of medium size and olive shape, with small top; quick growth; beautiful scarlet color, shading to white. This is an old sort, but it still retains a place in the list because of its beauty and fine quality. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 90c.

CRIMSON GIANT.—The most profitable variety for market gardeners. Rapid growing; roots of beautiful deep crimson, perfect in shape and more than double the size of any other forcing variety. It often measures 9 inches in circumference without getting pithy or hollow, and retains its firmness and tenderness of flesh. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

ICICLE.—A splendid long variety of almost transparent whiteness. Produces nice roots in 22 days from the date of sowing, and it continues in prime condition for a long period, so that in one sowing of seed, nice, crisp radishes may be had from spring until mid-summer. It is the most popular sort. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

WHITE STRASBURG.—Of handsome, oblong, tapering shape, both skin and flesh being pure white. The flesh is firm, brittle and tender and retains its crispness even if old and large. Excellent for summer use. It remains fit for use a long time and does not get pithy. Sometimes called the Sandwich Radish. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 90c.

EARLY LONG SCARLET, or Short Top.—An old standard variety of quick growth; long, slender root. The red companion of the Icicle and affords a fine contrast of red and white at the table. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

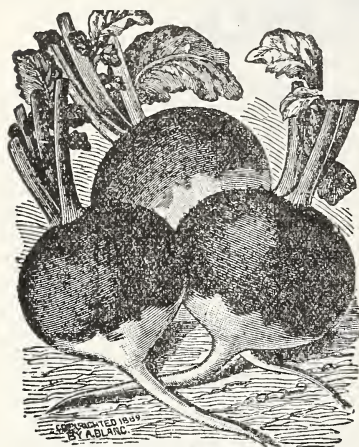
MIXED RADISH.—Our mixture of about two dozen kinds contains all shades and shapes; red, white, pink, variegated; round, half-long and long, in great variety. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

WINTER RADISH

CALIFORNIA MAMMOTH WHITE.—Large size, 8 to 12 inches long, 2 to 3 inches thick, white solid, of good quality. A very popular sort with market gardeners. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

CHINA ROSE WINTER.—A bright rose colored variety. The most popular of the winter radishes because of its bright color, firm flesh and long keeping qualities. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

LONG BLACK SPANISH—A large, black-skinned radish, with firm white flesh of pungent flavor. A good keeper, lasting until spring. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.



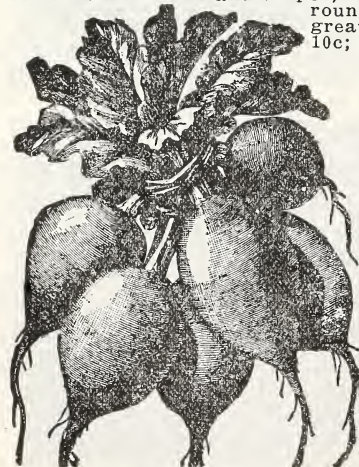
COOPER'S SPARKLER RADISH



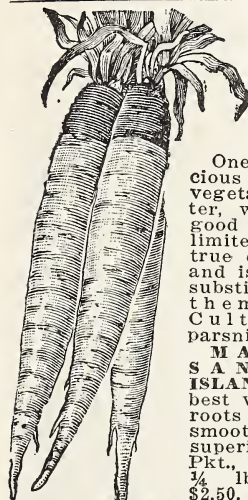
EARLY BIRD RADISH



ICICLE RADISH



EARLY SCARLET GLOBE RADISH



SALSIFY

VEGETABLE OYSTER

(One ounce will sow 50 ft. of drill, 8 lbs. per acre.)

One of the most delicious and nutritious of vegetables for use in winter, when the supply of good vegetables is limited. Has the true oyster flavor and is a delicious substitute for them in soups. Cultivate like parsnips.

MAMMOTH SANDWICH ISLAND.

— The best variety. The roots are white, smooth, and of superior quality. Pkt., 10c; oz., 20c; ¼ lb., 75c; lb. \$2.50.

SQUASH

(One ounce of early varieties will plant about 40 hills, two pounds will plant one acre. One ounce late varieties will plant about 20 hills, four pounds will plant one acre.)

Plant about the middle of spring in hills, the early sorts four to six feet apart, the late varieties eight to twelve. Thin to three plants in the hill. The soil cannot be too rich. Use Slug Shot and tobacco dust, listed on page 53, to kill the bugs.

DES MOINES SQUASH.—Vines vigorous and very productive. Just the right size, averaging 6 to 8 inches long and 4 to 6 inches in diameter. Color dark green, with sometimes a blotch of red at pointed end. Shell is hard and smooth, and is ridged. Wash it clean, cut in half, take out the seeds, bake 20 minutes and you will have the most delicious squash you ever tasted. Splendid for pies. Ripens in the fall and keeps well. Called "Table Queen" and "Acorn" by some dealers. Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., \$2.00.

WHITE BUSH.—Round, white scalloped summer squash. Very attractive in appearance and a popular early sort. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.

GOLDEN BUSH.—(Yellow Bush Scallop).—The earliest of all and quite a favorite with all who like summer squash. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.

EARLY BUSH CROOKNECK.—Splendid, early, productive, fine quality. With all new varieties recently brought out, many claim there is no summer squash superior to this. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.



DES MOINES
SQUASH

SPINACH

(One ounce will sow 80 ft. of drill; 10 lbs. is required to sow one acre.)

Makes the finest "greens" of any plant in cultivation. For summer, sow early in spring in deep, rich soil, one foot apart in drills; cover one inch; sow at intervals of two weeks. For early use sow in September and protect.

KING OF DENMARK.—The largest and finest spinach. Extra large, thick leaves and



LONG STANDING SPINACH

produces much more than the older types. Our seed is imported from responsible Holland growers. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

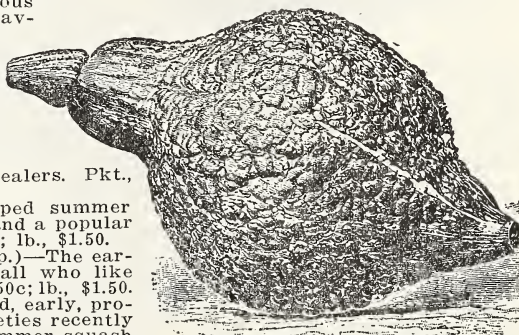
PRINCESS JULIANA.

Large, thick leaves, dark green and crumpled. This variety does not go to seed as quickly as older sorts. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

LONG STANDING.—Standard with gardeners; leaves fleshy, large and good quality. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c.

BLOOMDALE.—Savoy-leaved, curled sort. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c.

NEW ZEALAND.—A distinct variety of great merit. It is of the "cut and come again" type of plants. It is ready to use by the time the early spinach has gone to seed and will continue to grow and produce until frost. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.00.



TRUE HUBBARD

BANANA.—A distinct variety of fall and winter squash. It is very prolific, grows to two feet or over in length, is very fine grained and heavy, cooks dry but is free from that "choky" quality common to winter squashes. Always rich, sweet and splendid flavor. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.75.

TRUE HUBBARD.—Most popular winter squash grown; hard, green shell; flesh bright orange yellow, fine grained, very dry, sweet and rich flavor; keep in perfect condition throughout the winter. Our stock is selected for thick flesh and solidity. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.

SYME'S BLUE HUBBARD.—A new strain of Hubbard and a splendid squash. Very thick meat, fine grained, dry and excellent flavor. Color clear, light blue; thick shelled and a good keeper. It will be very popular because of quality and fine appearance. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

GOLDEN HUBBARD, also called Red Hubbard.—A counterpart of the old Green Hubbard, except in color, which is a bright, deep, orange yellow; fine flavor; in productiveness excels the green variety. Every market gardener will find it a "seller." Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

TOMATO

(One ounce will produce about 2,500 plants.)

Sow early in hotbeds or seed boxes and when plants have four leaves transplant to 4 or 5 inches apart. Give plenty of air and endeavor to secure a vigorous growth. When all danger of frost is past, transplant to the open ground, 4 to 6 feet apart each way. Well-manured, light, sandy soil is best.

DETROIT.—The earliest pink or light purple variety. Similar to the Beauty but earlier to mature. Popular with market gardeners. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00.

BONNY BEST.—A very early and desirable variety. The fruits are most attractive in shape, solidity and color, which is bright scarlet from outside to center. The vines are strong and vigorous, producing a good crop of globe-shaped fruits which ripen uniformly. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

JOHN BAER.—Productive, bearing in clusters and abundantly. Of medium size, nearly round shape, scarlet color and of excellent flavor. The large yield, desirable size and shape makes it suited for early market and home use. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

REDHEAD.—A bright red tomato ripening four or five days after Bonny Best or John Baer. It is the brilliant color that makes it popular. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

SPARKS' EARLIANA.—Extremely early, remarkable for its large size, handsome shape, and beautiful bright red color. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.00.

PONDEROSA.—Rather late to mature. Fruits very large and solid, purple color. Inclined to be irregular in shape, flesh is thick and fine in flavor. Immense cropper with good soil and care. Support it for best results. Pkt., 10c; oz., 45c; $\frac{1}{4}$ lb., \$1.50; lb., \$5.50.

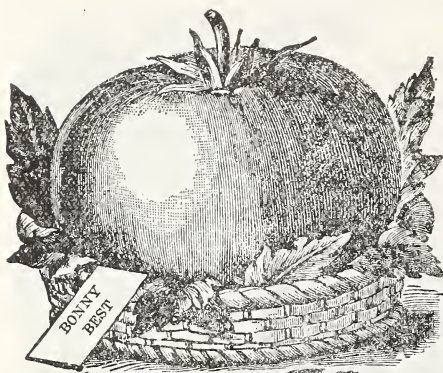
CRIMSON CUSHION.—Can be grown on trellises. Grows 7 to 10 feet high, if desired; most of fruit is borne 3 to 4 feet from the ground. Fine quality, extremely large, excellent. Pkt., 10c; oz., 45c; $\frac{1}{4}$ lb., \$1.50; lb., \$5.50.

MARGLOBE.—Disease resistant. Globe shape. Bright red, very solid and a new variety which is very popular for main crop. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50; lb., \$5.00.

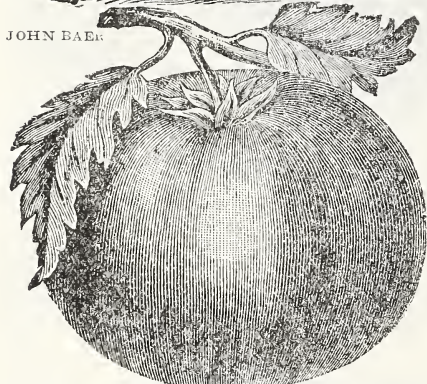
MATCHLESS.—Matchless in beauty, color and form. Vines strong and vigorous. Fruit very rich cardinal red color, and not liable to crack; of large size and size maintained throughout season. Solid, fine quality, and keeps well. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

LIVINGSTON'S BEAUTY.—One of the best. Its size, beauty, shape, flavor and productiveness makes it desirable. Color is purplish red. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

THE STONE.—Standard sort. One of the most prolific varieties. Fine for canning. Bright red. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.



JOHN BAER.



DWARF CHAMPION.—Plant is dwarf and compact, stem stiff and short jointed, almost self-supporting when it is laden with fruit. Early. Color purplish pink. Fruit is smooth, symmetrical, solid and of fine quality. Sometimes called "Tree Tomato." Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c.

MAJESTIC.—Largest, handsomest and finest quality tomato. The first fruits are somewhat rough, but later they are smooth and handsome, of rosy red color, its core blending into delicate shell-rose tints. Fruit is unusually solid, with very small seed cells. Flesh is tender, fine grained and rich, of mild, delicate flavor. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

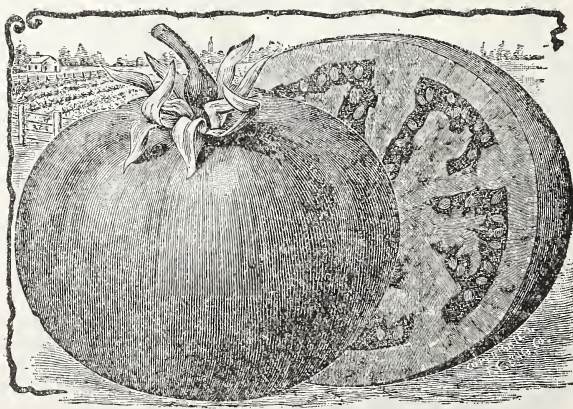
RED MAJESTIC.—This new sort appears to have all the qualities and size of the Majestic, but is a bright cardinal red in color, and for this reason may be preferred. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

GOLDEN MAJESTIC.—A magnificent new variety which originated in northern Iowa. It is the golden member of the great triumvirate, fully equal to the other Majestics in size, solidity, yield and flavor. The grandest yellow tomato. Pkt., 15c; oz., 50c.

Preserving Tomatoes

GOLDEN NUGGET.—Fruits are beautiful golden yellow, round as a ball and about as large as a hulled black walnut. Flavor exceptionally fine, and a most desirable variety. Pkt., 10c; oz., 50c.

YELLOW PEAR.—A favorite withall. Pear-shaped and a deep yellow color. Highly valued for preserving or to make "tomato figs." They are fine pickled. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.00.



MATCHLESS

NO GARDEN IS COMPLETE WITHOUT PLENTY OF TOMATOES. HAVE SOME TO CAN.

TURNIPS

(One ounce will sow 150 feet of drill. Two pounds will sow an acre.)

For early, sow in April in drills half an inch deep and twelve inches apart; thin to six inches apart in the drill. For main crop sow broadcast in July and August, and before a shower.

EXTRA EARLY PURPLE TOP MILAN.—One of the earliest sorts in cultivation. Bulb very flat, medium size, quite smooth, with a bright purple top; grows compact with small strap-leaved top. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. \$1.00.

EARLY SNOWBALL.—A globe-shaped, white-skinned turnip, very fine grained, firm and of delicate flavor. One of the best keeping of white fleshed sorts, very early and particularly adapted for market use. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

GOLDEN BALL or Orange Jelly.—A beautiful bright yellow fleshed turnip of medium size and universally sweet and delicious flavor. Is one of the best keepers. Flesh extremely firm and solid. Brings good price on market. If you have never tried yellow turnips plant Golden Ball this year. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

PURPLE TOP STRAP LEAVED.—The standard for late planting. One of the best sorts on the market, fine grained and of mild flavor. Of good size, flat shape, pure white below with purplish red top. Good cropper, excellent keeper. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 65c 5 lbs., not prepaid, at 55c per lb.

PURPLE TOP GLOBE.—Similar to the Purple Top Strap Leaved except shape. The largest yielder of any turnip on the list and always brings top market price. Produces wonderful crops, as much as 1,000 bushels per acre frequently. A splendid item for winter stock feeding. Usually fed in connection with mixed grain feeds. Very desirable for table use. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c. 5 lbs., not prepaid, at 60c per pound.

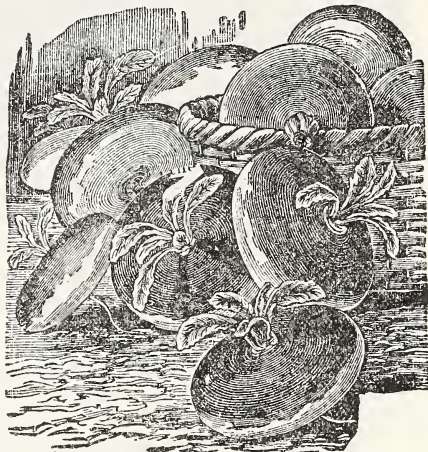
RUTA BAGA

Also called "Swede" turnips. A splendid table vegetable, also grown for stock feeding. Many people consider them superior to turnips. Sow in June in drills 2 ft. apart, thin out to 8 inches.

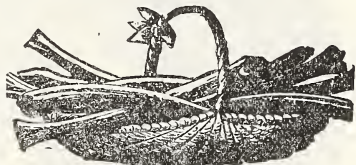
IMPROVED AMERICAN.—Very solid, fine quality, good shape, smooth skin, small neck, keeps well. A choice strain of very best quality for table use or stock feeding. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.



PURPLE TOP GLOBE



PURPLE TOP STRAP LEAF



RHUBARB

(One ounce will produce about 100 plants.)

Succeeds best in deep, rich soil. Sow in the spring in drills, cover one inch. Thin to six inches apart; transplant in the fall or spring to permanent beds three feet apart each way.

IDEAL MAMMOTH.—Leaves four feet across; stalks three inches in diameter and $3\frac{1}{2}$ feet long. Die down in August and start new growth, making fresh stalks for winter canning. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

VICTORIA.—The standard variety. Preferred by many on account of their piquant and rich flavor. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

RHUBARB ROOTS

Purchase roots, as you can save one year's time in this way. The roots we offer are large divided plants. Plant spring or fall, setting 3 feet apart.

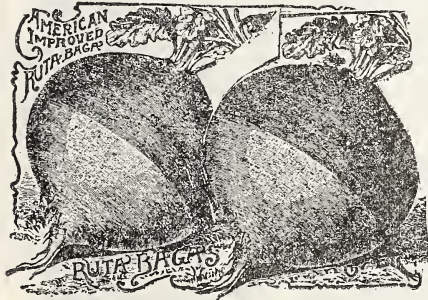
IDEAL MAMMOTH.—The largest variety. Strong roots 20c each, doz. \$2.00, postpaid. By express, not prepaid, per doz. \$1.50.

VICTORIA.—Each 25c, 5 for \$1.00, doz. \$2.00, postpaid. By express, not prepaid, per doz. \$1.50.

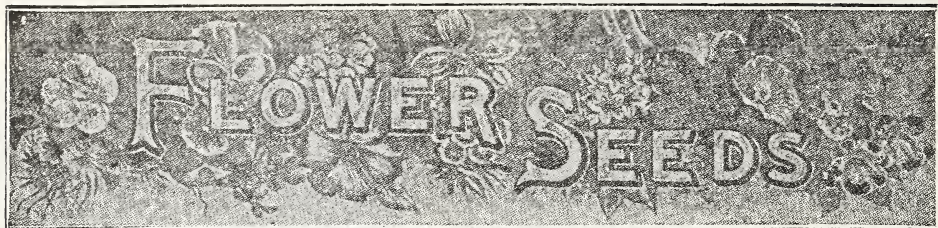
TOBACCO

CONNECTICUT SEED LEAF.—This is a staple variety in all sections of the country and will grow successfully over a wide range of territory. Used for cigar fillers. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.50.

WHITE BURLEY.—A mild and sweet tobacco. It is the standard main crop variety in the tobacco sections as it is extra fine for manufacturing in nearly every manner that tobacco is used. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.50.



TURNIPS ARE EASILY GROWN AFTER THE EARLY CROPS ARE HARVESTED.



DIRECTIONS FOR SOWING, ETC.—The conditions and requirements of the several species as to soil, moisture, heat, etc., should be studied and observed in culture. We give a few general instructions though more complete directions are printed on seed packets. The soil best adapted to most flowers is light, rich loam, containing enough sand to make it porous. If there is some clay with it the colors will be brighter. Make surface smooth and fine as possible; sow seeds in rows, covering each sort of seed in proportion to its size and you should press the soil down firmly over the seeds. Do not plant any seeds when the ground is wet. Many varieties, such as pansy, verberna, daisy, hollyhock and the fine greenhouse plant seeds, should be sown early in shallow boxes in the house, in soil consisting of equal parts of fine sand and rich, mellow loam well mixed together and sifted to remove all gravel and lumps. Sow as before directed. Covering the box with glass helps to retain the moisture and keeps the temperature even. Do not keep too wet; when large enough transplant to boxes or beds.

ABRONIA

Trailing habit like verberna. Clusters of sweet-scented flowers. Sometimes one plant covers a yard square full of bloom. Rose color. Pkt., 10c; $\frac{1}{4}$ oz., 30c; oz., 80c.



AGERATUM

Perennial Ageratum page 42

BLUE PERFECTION.—Improvement over common blue ageratum. Flowers larger and deeper blue. Blooms freely; fine in beds or borders. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

WHITE PERFECTION.—An improved white. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

ALYSSUM

Perennial Alyssum page 40.

SWEET.—Has little white flowers useful for small bouquets. Its fragrance, while pronounced, is very delicate. Makes a pretty border. Pkt., 5c; $\frac{1}{4}$ oz., 10c; oz., 30c.

LITTLE GEM.—Very dwarf and remarkably uniform, only 3 or 4 inches high and spreads to 12 inches in diameter. Pkt., 5c; $\frac{1}{4}$ oz., 20c; oz., 50c.

LILAC QUEEN.—A new color in Alyssum which will be very attractive and popular with those who desire a delicate blue plant for borders. Pkt., 10c; $\frac{1}{4}$ oz., 20c.

AMARANTHUS

Colors will be more brilliant if in rich soil.

TRICOLOR.—Leaves yellow, red and green; well known as "Joseph's Coat." Hardy annual; 2 feet high. Pkt., 5c.

SALICIFOLIUS.—Popularly known as "Fountain Plant." Pkt., 10c.

CAUDATUS.—(Love Lies Bleeding.)—Produces long, drooping chains of brilliant colored flowers. Pkt., 5c.

Mixed Varieties.—Above kinds in mixture. Pkt., 5c; $\frac{1}{4}$ oz., 10c; oz., 30c.

ANTIRRHINUM

GIANT FLOWERED MIXED.—Most beautiful, having all the finest colors and markings known. Flowers are of immense size and produced in long spikes, 1 to 2 feet high. Pkt., 10c; $\frac{1}{4}$ oz., 50c; oz., \$1.50.

CERBERUS.—Carmine red. Pkt., 10c.

GOLDEN QUEEN.—Old gold. Pkt., 10c.

THE ROSE.—Bright pink. Pkt., 10c.

PURPLE KING.—Purple. Pkt., 10c.

DIAMOND.—Scarlet yellow lip, pink throat. Pkt., 10c.

SNOWFLAKE.—White. Pkt., 10c.

ARCTOTIS GRANDIS

Remarkably handsome annual; much-branched bushes about 2 ft. high. Foliage soft and downy, of whitish color; its flowers, borne on long stems, are large and showy; surface embellished with a narrow yellow zone at base; reverse of petals lilac blue; disc is light blue with slightly projecting white stamens. Pkt., 10c.



ABRONIA



ANTIRRHINUM



ARCTOTIS. GRANDIS



AGERATUM



ALYSSUM



AMARANTHUS

ROYAL ASTERS

Perennial Asters on page 41.

Royal Asters are a wonderful opportunity for aster lovers. We offer five bright colors in the best strain of this early branching type.

ROYAL LAVENDER.—The daintiness of the color delights the eye, while the perfect form and lovely bloom makes it very popular. Pkt., 10c.

ROYAL PURPLE.—Aster producing immense large flowers of royal purple on strong, upright stems. Unexcelled as a show flower. Per pkt., 10c.

ROYAL WHITE.—A beautiful and distinct variety and the best white. Of refined and faultless form and very freely produced. Per pkt., 10c.

ROYAL PINK.—Beautiful, bright shade of pink. Show best when mingled with darker shades. Blossoms of perfect shape on long stems. Per pkt., 10c.

ROYAL RED.—Bright cardinal red flowers of very large size. Compact form with plants of strong, robust growth. Branching type like above. Pkt., 10c.

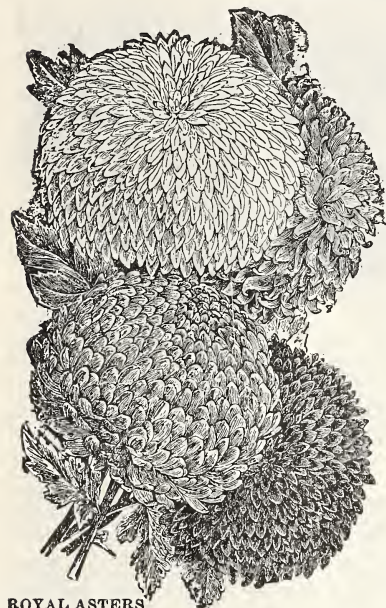
ROYAL MIXED.—Our choicest mixture, made from named varieties. The widest range of colors and most vigorous plants. Mixed in our own house to safeguard its quality. Pkt., 10c; ¼ oz., 60c; oz., \$2.00.

ROYAL ASTER COLLECTION

One packet each of the five royal varieties and one packet each of Crown, Crego and King—eight in all—postpaid for only 50 cents.

KING ASTERS

These are the finest of the Quilled Asters. Grow 18 to 24 inches high. Beautiful large blooms September until frost. Mixed colors, pkt., 10c; ¼ oz., 60c; oz., \$2.00. **Pure White, Crimson, Rose Pink, Lavender, Bright Pink, Dark Blue.** Any color, pkt., 10c; ¼ oz., 75c; oz., \$2.50.



ROYAL ASTERS

ASTERMUMS

A selection of Comet type, with great, large flowers, curved and reflexed like chrysanthemums. The form of the flower is very striking and attractive.

WHITE.—Pkt., 10c; ¼ oz., 60c.

PINK.—Pkt., 10c; ¼ oz., 60c.

RED.—Pkt., 10c; ¼ oz., 75c.

LAVENDER.—Pkt., 10c; ¼ oz., 60c.

PURPLE.—Pkt., 10c; ¼ oz., 75c.

MIXED ASTERMUMS.—Above and other shades in fine variety. Pkt., 10c; ¼ oz., 60c.

CROWN.—Center of each flower white; surrounded by broad margin of color—crimson rose, violet, etc.; flowers are large, freely produced. Beautiful and showy. Mixed colors. Per pkt., 10c.

CREGO.—Chrysanthemum flowered asters. Combine splendid coloring and shading with the unique form of quilled varieties. Mixed colors. Pkt., 10c.

FINE MIXED ASTERS.—Mixture of varieties and colors from the fields of the growers. Good seed at a low price. Flowers of many forms and sizes, and very desirable. Pkt., 5c; ¼ oz., 30c; oz., \$1.00.



ASTERMUM

BALSAM

A most beautiful annual. Flowers are most brilliantly colored, very large and double. Packets contain about 50 seeds.

CAMELIA-FLOWERED MIXED.—Very double, resembling camelia in form, of unusual size, perfect shape, and contains all the best colors. Pkt., 10c; oz., 65c.

PEERLESS MIXED.—Best foreign and American strains. Flowers double, all colors. Popular names, "Touch-Me-Not," "Lady Slipper." Pkt., 10c; oz., 65c.

BLUE LACE FLOWER

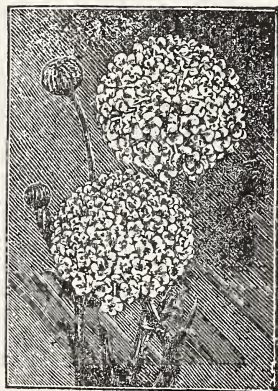
DIDISCUS COERULEUS.—Blooms profusely from July till November. Lovely pale lavender blossoms, excellent for cutting. Grow about 18 in. high. Pkt., 10c.

BROWALLIA

GRANDIFLORA.—Most beautiful of all Browallias. Grow only about 1 ft. high; form dense little bushes covered with abundance of delightful extra large sky-blue flowers. Pkt., 10c.



PEERLESS BALSAMS



BLUE LACE FLOWER

BURNING BUSH

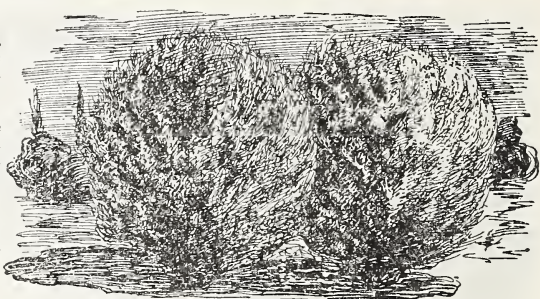
A fine annual border or hedge plant. Grows quickly from seed. Plants are rounded or globe-like form, branch freely. Pkt., 5c; $\frac{1}{4}$ oz., 20c; oz., 50c.

BUTTERFLY FLOWER

(Schizanthus.) Challenges the rare orchids in beauty. Easily grown and makes a bushy plant loaded with rich, varied colored flowers. Pkt., 10c.

CACALIA

COCCINEA.—A handsome little plant; peculiar form of flower. Is sometimes called Tassel Flower or Flora's Paint Brush. Scarlet bloom, bright and attractive. Pkt., 5c; $\frac{1}{4}$ oz., 40c.



MEXICAN BURNING BUSH

CANDYTUFT

All varieties look best in beds or masses; hardy annuals, easy to cultivate, bloom profusely. Foot high.

GIANT EMPRESS.—Pure white. Pkt., 10c; $\frac{1}{4}$ oz., 35c.

CRIMSON.—Pkt., 10c; $\frac{1}{4}$ oz., 30c.

LILACINA.—Lilac. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

ROSE CARDINAL.—Bright pink. Pkt., 10c; $\frac{1}{4}$ oz., 35c.

FLESH PINK.—Beautiful. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

BEST MIXED.—Above varieties and other colors. Pkt., 5c; $\frac{1}{4}$ oz., 10c; oz., 30c.

CALLIOPSIS

Perennial Calliopsis page 41. Showy flowers anywhere without trouble or care.

GOLDEN WAVE.—Beautiful yellow flower with brown-red ring. Bright and striking. Pkt., 10c; $\frac{1}{4}$ oz., 20c; oz., 50c.

SINGLE MIXED.—Mixture of annual varieties. Many shades of yellow, red, brown. Pkt., 5c; $\frac{1}{4}$ oz., 10c; oz., 30c.

CLARKIA

Greatly improved. A number of new and beautiful colors have been evolved. Bloom freely all summer.

COLORS.—Pink, salmon, carmine or scarlet. Any color, pkt., 10c; $\frac{1}{4}$ oz., 50c.

MIXED COLORS.—Pkt., 5c; $\frac{1}{4}$ oz., 40c.



BUTTERFLY FLOWER



CALLIOPSIS

CALENDULA

Belongs to marigold family. An annual of the easiest culture and quite effective in mass plantings or in beds.

FINE MIXED.—Many sorts. Pkt., 5c; $\frac{1}{4}$ oz., 10c; oz., 25c.

ORANGE KING.—Extra large fine blooms of bright orange. Very popular. Pkt., 10c; $\frac{1}{4}$ oz., 20c; oz., 50c.

LEMON QUEEN.—Companion flower to Orange King. Color, light yellow. Pkt., 10c; $\frac{1}{4}$ oz., 20c; oz., 50c.



ORANGE KING CALENDULA

CANNA

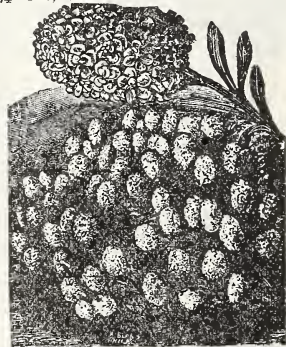
One of the best bedding plants. Their handsome leaves with varied and richly colored flowers have an extremely fine effect. Easily raised from seed which should be filed on one side until the white shows before planting.

FANCY LARGE FLOWERED.—Very large flowering dwarf varieties $3\frac{1}{2}$ feet high. Pkt., 10c; oz., 40c.

CARNATION

Quickest growing dianthus or pink. Very fragrant.

MARGUERITE.—Mixed.—In full bloom about four months after sowing; plants succeed in open garden or pots, and are of vigorous, dwarf, erect growth. Colors, markings and shading wonderful. Pkt., 10c.



GIANT EMPRESS CANDYTUFT



MARGUERITE CARNATIONS

CRIMSON CANDYTUFT MAKES A FINE BORDER FOR BEDS OF COLORED FLOWERS

CENTAUREA

Perennial Centaurea page 41.
CYANUS DOUBLE.—Known as Cornflower or Ragged Sailor. Large globular flowers. Continuous bloomer. Mixed colors. Pkt., 5c; $\frac{1}{4}$ oz., 25c; oz., 75c.

Also colors as follows:

Deep Blue	Purple
Sky Blue	Carmine
Rose Pink	White

Pkt., 10c; $\frac{1}{4}$ oz., 40c; oz., \$1.
GYMNOCARPA.—(Dusty Miller).—Foliage is finely cut and silvery. A fine white-leaved plant for bedding. Pkt., 10c; $\frac{1}{4}$ oz., 40c; oz., \$1.00.

IMPERIALIS MIXED.—Improved Sweet Sultan. A wonderfully beautiful flower for bouquets, vases or decorations. Pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 80c.

Also colors as follows:

Pink	Lilac
White	Lavender
Amaranth	Purple

Pkt., 10c; $\frac{1}{4}$ oz., 50c; oz., \$1.50.



DOUBLE CENTAUREA

CELOSIA

For summer beds; produces showy, brilliant effects. Useful in winter bouquets, lasting a long time.

SPICATA.—A wonderful Celosia. Forms upright, well-branched pyramids, about $2\frac{1}{2}$ feet in height, producing at the summit of each branch spikes of flowers opening rose pink, changing to silvery white. Pkt., 10c.

TALL CRIMSON.—Grows six feet high in good soil. Pkt., 10c; $\frac{1}{4}$ oz., 50c.



PLUMED CELOSIA



CHINESE WOOLFLOWER



COSMOS

Magnificent plants 4 to 6 feet high, with graceful flowers resembling single dahlias, but better for cutting. Easily grown.

LADY LENOX.—Beautiful light pink flowers of extra large size. Pkt., 10c; $\frac{1}{4}$ oz., 20c; oz., 50c.

KLONDIKE.—A dwarf variety growing 18 in. high, with bright orange colored flowers. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

RED STAR.—Bright red. A fine color for solid rows or backgrounds. Pkt., 10c; $\frac{1}{4}$ oz., 20c; oz., 50c.

PURPLE LADY.—Purple color. To help get the widest range in colors. Pkt., 10c; $\frac{1}{4}$ oz., 20c; oz., 50c.

MAMMOTH PERFECTION.—Seed should be sown early in house. Quite late. Pkt., 5c; $\frac{1}{4}$ oz., 15c; oz., 50c.

EARLY DAWN MIXED.—Bloom two months from sowing, until frost. Fine, feathery, green foliage and rose, purple, white and lilac flowers. Mixed. Pkt., 10c; $\frac{1}{4}$ oz., 20c; oz., 60c.

DOUBLE MIXED.—A beautiful new type of Cosmos which is becoming very popular. Pkt., 10c; $\frac{1}{4}$ oz., \$1.00.

CHINESE WOOLFLOWER

CELOSIA CHILDSII.—Odd and showy. Plants grow about 3 feet high, the bloom starting early with a globular central head, while numerous branches are sent out, each bearing a ball of scarlet wool that last until killed by frost. If cut before frost and dried in a dark place retain their color all winter. Pkt., 20c; $\frac{1}{4}$ oz., \$1.00.

COCKSCOMB

GIANT EMPRESS.—The Empress is the finest and most gorgeous variety; not uncommon for the heads to measure 12 inches in breadth; purple combs, dark bronze foliage. Pkt., 10c.

GOLDEN GLOW.—Plants large and produce handsome flowers 5 to 10 in. in diameter, of bright, rich, golden yellow. Contrasts with the crimson of Giant Empress. Per pkt., 10c.

ALL VARIETIES MIXED.—Many Celosias and Cockscombs mixed. Pkt., 10c; $\frac{1}{4}$ oz., 75c.



GIANT EMPRESS COCKSCORN

COLEUS

(Foliage Plant.) Easily grown from seed. Frequently produces new distinct varieties. Packets contain about 150 seeds.

RAINBOW MIXED.—Finest sorts. Pkt., 15c.

DAHLIA

If the seed is sown early in the spring they will bloom the first year. The best way is to start them in flats or boxes in the house in March and transplant to open ground about the first of May. Many new varieties may be secured from among seedlings. For Dahlia roots see page 49.

BEST DOUBLE MIXED.—Our seed is of the finest; saved from large, very double flowers of richest shades. Pkt., 10c; $\frac{1}{4}$ oz., \$1.00.

DAISY

For perennial daisies see page 42.

AFRICAN GOLDEN.—(*Dimorpothea Aurantiaca*)—This very beautiful, showy annual comes from South Africa. Blossoms 2 to 3 inches in diameter, a peculiarly rich, glossy orange gold color, produced quickly on sturdy plants three feet high.

HYBRIDS MIXED.—Pkt., 10c.

SWAN RIVER.—(*Brachycome*)—Very pretty low-growing plants, fine for borders, rustic work or pot culture, covered during summer with a profusion of cineraria-like flowers. Mixed blue and white. Pkt., 10c.



AFRICAN
GOLDEN
DAISY



ORIENTAL MIXED
DIANTHUS



FOUR O'CLOCK



DOUBLE DAHLIAS

DIANTHUS

Dianthus, or Chinese Pinks, furnish abundance of gay and pretty flowers until frozen.

ORIENTAL MIXED.—Markings and colors are rich and brilliant; striped, blotched and banded. Colors range white to crimson and maroon. Pkt., 10c; $\frac{1}{4}$ oz., 35c; oz., \$1.00.

ESCHSCHOLTZIA

(California Poppy)—Easy to grow, brilliant in color; bloom under any condition.

MIKADO.—Brilliant orange scarlet. A flaming color. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

ROSE QUEEN.—Soft rose or flesh color. Very dainty. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

CRIMSON.—A beautiful large bright crimson. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

GOLDEN WEST.—A giant flower of rich golden yellow. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

SINGLE MIXED.—The above varieties and others mixed. Pkt., 5c; $\frac{1}{4}$ oz., 15c; oz., 40c.

EUPHORBIA

VARIEGATED.—"Snow on the Mountain." Annual suitable for screens. Foliage ornamental, veined and margined white. Pkt., 5c.

HETEROPHYLLA.—(Mexican Fireplant or Annual Poinsettia.)—Bush-like with smooth, glossy-green leaves. In midsummer these are beautiful orange-scarlet. Pkt., 10c.

FOUR O'CLOCK

(Mirabilis)—Marvel of Peru, or Four O'Clock. A most brilliant, showy annual. Their rich, glossy leaves and profusion and diversity of bloom are a gorgeous sight.

MIXED COLORS AND VARIETIES.—A fine assortment. Pkt., 5c; oz., 20c.



ESCHSCHOLTZIA



EUPHORBIA VARIEGATA

COSMOS FOR BACK ROW AND FOUR O'CLOCK IN FRONT MAKE A BEAUTIFUL SCREEN

GAILLARDIA

For perennial Gaillardia see page 42.

Blanket Flower. Exceedingly beautiful annuals, very showy plants, 1 to 2 feet high, showing many bright shades of color. Grown in mass are effective.

AMBLYODON.—Splendid red shades, two to three feet high. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

AURORA BOREALIS.—A beautiful combination of brown, red and yellow. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

SULPHUREA.—Bright yellow with dark center. One of the most showy. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

PERFECTION DOUBLE MIXED.—A double flower, round as a perfect ball, in most varied and pleasing colors. Pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 75c.

SINGLE MIXED.—Pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 75c.

DOUBLE AND SINGLE MIXED.—To afford the widest range in mixture. Pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 75c.

GERANIUM

GOOD VENTURE.—Easily raised from seed, which frequently reward the cultivator with new varieties. Start early in the house; bloom the first summer in the garden. Pkt. (about 40 seeds), 15c.

GOSETIA

Handsome and showy annual about one foot high, of dwarf, compact growth; bear freely large flowers 3 to 4 inches across, of exquisite colors.

MIXED VARIETIES.—All colors. Pkt., 10c.

GYPHOPHILA

Perennial Gypsophila, page 42.

Delicately pretty little flowers sometimes called "Baby's Breath" or "Angel's Breath." Graceful and easily grown in open ground.

ELEGANS.—Small white flowers. Annual sort. Pkt., 5c; $\frac{1}{4}$ oz., 15c.



ANNUAL GAILLARDIA

HELIOTROPE

A great favorite for their beauty and fragrance; are well suited for beds or borders in summer and may be potted for winter blooming.

MIXED COLORS.—Pkt., 10c.

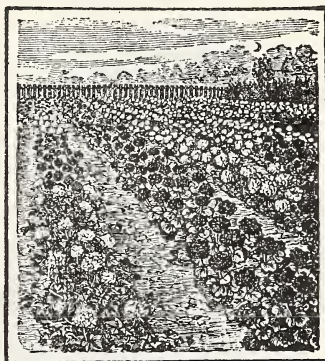
HOLLYHOCKS

For Perennial Hollyhock, see page 43.

EVERBLOOMING.—A most showy flower. Started in the house in March and set out in May it blooms in July. Sown in the open ground in April it blooms in August. Of vigorous growth, with large flowers. Colors varied. Pkt., 10c; $\frac{1}{4}$ oz., 35c; oz., \$1.00.



ANNUAL HOLLYHOCKS

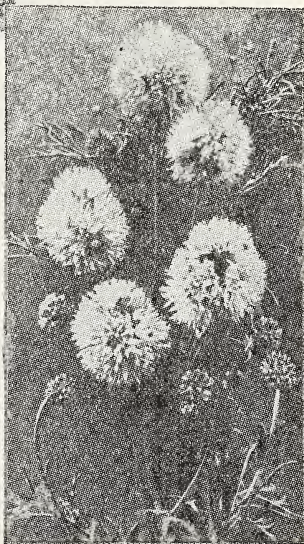


GERANIUM

GILIA

Free-flowering, hardy annuals, one foot to 18 inches high, with finely cut foliage and clusters of small, delicate flowers, white, blue, lilac, and rose color; suitable for beds, rockwork and edgings. Sow seed in open ground. Mixed. Pkt., 5c; $\frac{1}{4}$ oz., 25c.

CAPITATA (Thimble Flower)—Very graceful, growing about two feet high with fine feathery foliage and bearing freely over a long season globular heads, about one inch across, of rich lavender blue flowers, which last well when cut and retain color when dried. Pkt., 10c; $\frac{1}{4}$ oz., 35c.



GILIA CAPITATA

FAVORITE FLORAL COLLECTION

Twenty-two packets of free blooming annual flowers, easy to grow for \$1.25. See inside back cover.

HUNNEMANNIA**(Giant Yellow Tulip Poppies)**

Best of the poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, in 60 days, produce plants covered with large buttercup-yellow poppy-like blossoms, and blooms until hard frost. Grows about 2 feet high, quite bushy, with beautiful feathery foliage. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

ICE PLANT

A handsome plant for hanging baskets, rockwork and vases. The leaves and stems appear as covered with ice crystals. The plant is peculiarly brilliant in sunshine. Flower is white and pink. Pkt., 5c; $\frac{1}{4}$ oz., 25c.

IMPATIENS**(Sultan's Balsam)****HOLSTI HYBRIDS.**

Handsome bushy plants 12 to 18 inches high. The flowers, $1\frac{1}{4}$ to $1\frac{1}{2}$ inches across, are scarlet, orange-red, pink and white, with a red eye. Grow luxuriantly out-of-doors and make unusually showy flower-beds. Grown in pots are equally effective. Mixed colors. Pkt., 15c.

LANTANA

Lantanas are favorites for beds or porch boxes. Flowers resemble verbenas in form and range in colors of pink, lavender, yellow and orange.

BRAZILIAN BEAUTY.—Specially fine mixture of choicest sorts. Pkt., 10c.

LARKSPUR

See Delphinum, page 42.

The annual Larkspurs have been greatly improved the past few years, and they now equal the Delphinums in gorgeous grandeur.

HYACINTH FLOWERED.—Three or four feet high, adapted to borders, beds or among perennials. Mixed colors. Pkt., 5c; $\frac{1}{4}$ oz., 50c.

STOCK FLOWERED MIXED.—A new type of annual Larkspur. Extra large and equal to Delphinum in size and beauty. Colors range from rose to deep blue. Pkt., 10c; $\frac{1}{4}$ oz., 30c; oz., 75c.

STOCK FLOWERED TO COLOR.—White, flesh, rose, carmine, scarlet, sky blue and dark blue. Any color per pkt., 10c; $\frac{1}{4}$ oz., 40c.

LINUM

Perennial Flax on page 43.

GRANDIFLORUM RUBRUM.—(Scarlet Flax.)—A showy annual for flower beds and masses; crimson scarlet flowers. Pkt., 5c; $\frac{1}{4}$ oz., 10c; oz., 30c.

LOBELIA

CRYSTAL PALACE COMPACTA.—A dwarf variety. Flowers deep, dark blue color and cover plant; fine for carpet bedding or border. Pkt., 10c.

EMPEROR WILLIAM.—Dwarf habit and hardy, similar to Crystal Palace. Color is lovely light blue. Pkt., 10c.

LUPINUS

See page 43 for Perennial sorts.

MIXED ANNUAL VARIETIES.—Strong growing garden annuals, with innumerable spikes of flowers of various colors. Pkt., 10c; oz., 50c.

SUBCARNOSUS.—(Texas Blue Bonnet)—Dwarf, growing about 12 inches high, producing pretty blue flowers all summer. Pkt., 10c; $\frac{1}{4}$ oz., 35c.



HUNNEMANNIA



ICE PLANT



IMPATIENS

SULTAN!



LARKSPUR



LANTANA



LUPINUS



LOBELIA

LARKSPURS FOR CENTER AND LOBELIA FOR BORDERS MAKE ATTRACTIVE BEDS

MARIGOLD

A general favorite, as they produce such great numbers of brilliant colored flowers that are always a bright spot wherever planted.

TALL AFRICAN.—This old favorite has been greatly improved in size and doubleness of its flowers. Double mixed. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

PRIDE OF THE GARDEN.—A wonderful fine strain of Dwarf Marigolds containing a variety of colors. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

LEMON QUEEN.—Extra large flowers of clear canary yellow color, on long stems. Blooms until frozen. Pkt. 5c; $\frac{1}{4}$ oz. 25c; oz. 75c.

ORANGE QUEEN.—Companion to the Lemon Queen, of bright orange. Fine, large blooms. Pkt. 5c; $\frac{1}{4}$ oz. 25c; oz. 75c.

LEGION OF HONOR.—Distinctly marked brown and yellow flowers of striking beauty. Pkt. 5c; $\frac{1}{4}$ oz. 25c.

ELDORADO MIXED.—Immense double flowers, 9 to 14 in. around; primrose, lemon, orange and golden shades. Three feet high. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

SIGNATA PUMILA.—Very dwarf type, growing only 8 inches high. Fine for borders. Pkt. 10c; $\frac{1}{4}$ oz. 50c.



ELDORADO MARIGOLD

MACHET
MIGNONETTE

MIGNONETTE

SWEET SCENTED.—The fragrance of the Mignonette makes it indispensable for bouquets and cutting. Sow early. They will bloom first of June. Pkt., 5c; oz., 25c.

MACHET.—Makes a pretty and fragrant pot plant. Distinct variety of great merit. Vigorous dwarf growth with very large spikes of deliciously scented red flowers. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

MIMULUS

TIGRINUS.—(Monkey Flower.)—There are a wide range of colors in Mimulus Tigrinus. They are spotted scarlet, crimson and pink on yellow or white grounds and offer striking contrasts that are sure to please. Very showy and free flowering. Mixed sorts. Pkt., 10c.

MOSCHATUS.—Well known musk plant; quite pretty, and has a strong musk fragrance. If better known this we are sure would be more grown as the odor is pleasant and it is nice for pot culture. Pkt. 10c.

MYOSOTIS (Forget-Me-Not)

The dainty blue Forget-Me-Not is always appreciated.

PALUSTRIS.—True Forget-Me-Not. A perennial. Blooms first year from seed. Pretty plants with neat little star-shaped blue flowers. Pkt., 10c.

VICTORIA.—Best for pot culture. Dwarf, globular habit; beautiful sky-blue, center double. Per pkt., 10c.

NICOTIANA

AFFINIS.—White flowering tobacco plant. Grows 3 feet high, bearing fragrant flowers. Pkt., 10c.

SANDERAE HYBRIDS.

These new hybrids have also various shades of purple, pink, red, salmon, violet and white. Grows about 2 feet high, loaded with flowers open all day. Sow early in May. Mixed colors. Pkt., 10c.

NIGELLA

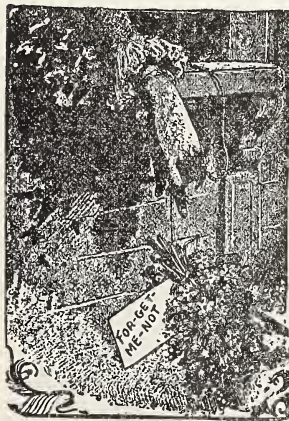
(Love in the Mist)

MIXED COLORS.—Hardy annuals about 1 ft. high; very pretty. Double flowers, blue, white and purple, beautifully veiled with feathery, delicate foliage. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 25c.

MISS JEKYLL.—A large and profusely blooming variety with bright sky-blue flowers and fine fern-like foliage. Taller than most. Pkt., 10c; $\frac{1}{4}$ oz. 20c; oz., 60c.



MIMULUS TIGRINUS



MISS JEKYLL NIGELLA

NASTURTIUMS

DWARF VARIETIES

Aurora.—Deep chrome yellow, blotched and veined purplish carmine. Pkt., 5c; oz., 20c.

Beauty.—Scarlet splashed canary yellow. A fine variety; attractive flower. Pkt., 5c; oz., 20c.

Chameleon.—Crimson, gold and bronze, bordered and flamed. Pkt., 5c; oz., 20c.

Empress of India.—Dark purplish leaves and brilliant scarlet flowers. Pkt., 5c; oz., 25c.

Feltham Beauty.—Specially attractive foliage; flowers bright scarlet. Pkt., 5c; oz., 25c.

King Theodore.—The "black" nasturtium, deep velvety crimson. Pkt., 5c; oz., 25c.

Ruby King.—Bright and brilliant carmine color; profuse bloomer. Pkt., 5c; oz., 25c.

Vesuvius.—Bright salmon pink, veined deep orange. Brightest shade in list. Pkt., 5c; oz., 20c.

Imperial Mixed.—Mixed by us from best named varieties. Pkt., 5c; oz., 20c; ¼ lb., 70c.

Dwarf Varieties Mixed.—A nice mixture of colors; free bloomer. Pkt., 5c; oz., 20c; ¼ lb., 50c.

CLIMBING VARIETIES

Daylight.—Rich yellow, the necessary color for complete contrasts. Pkt., 5c; oz., 25c.

Firelight.—Brilliant cardinal red, brightest and most attractive color. Pkt., 5c; oz., 25c.

Midnight.—Dark, brownish red; profuse bloomer. Fine in mixed beds. Pkt., 5c; oz., 25c.

Moonlight.—Pale straw or lemon yellow, a delicate, soft shade. Pkt., 5c; oz., 25c.

Sunlight.—Rich brilliant orange color; flowers immense size; crinkled. Pkt., 5c; oz., 30c.

Twilight.—Lovely delicate flower of salmon rose or pink. Pkt., 5c; oz., 25c.

Madam Gunter's Hybrids.—Mixture of many colors; best climbing varieties. Pkt., 5c; oz., 20c; ¼ lb., 70c.

Tall Varieties Mixed.—A good mixture of climbing sorts. Pkt., 5c; oz., 20c; ¼ lb., 50c.



IMPERIAL MIXED NASTURTIUMS

OENOTHERA

(Evening Primrose)

Blossoms fully expand only toward and during evening. Three to four inches across. A hardy annual. Mixed white and yellow. Pkt., 5c.



AMERICAN
GIANT
PANSIES

GIANT PANSY PLANTS

Grown from our American Giant seed. Wonderful large flowers in many colors. Will bloom quickly when set out in bed. Per doz., 50c. Postpaid Iowa points, 60c.

PANSIES

Tufted Pansies (Violas) on page 41.

Pansies are a specialty with us, and we use the greatest care to secure the best strains. Packets contain 125 to 150 seeds.

PRETIOSO.—A new strain of the world's best grower. Widest range of colors, most diversified markings, and velvety substance of any mixed pansies now offered. They are great, large, fine blooms, satiny finish, brightest colors which really shine with lustre. Pkt., 10c; ¼ oz., \$1.50; oz., \$5.00.

AMERICAN GIANT.—This strain is of strong, robust, luxuriant growth and produces magnificent immense flowers. Comprise practically all shades and markings known. Grown expressly for us by a careful pansy specialist. Pkt., 10c; ¼ oz., \$2.00; oz., \$7.00.

MASTERPIECE.—Distinct from all others in form of flowers, the border of every petal conspicuously undulated and curled. Flowers are very large. Pkt., 10c; ¼ oz., \$1.50.

GIANT TRIMARDEAU.—Flowers of very large size. Each flower marked with three large blotches or spots and stands well above foliage. Choice mixed colors. Mixed in our house to make sure of a range of color in proper proportions. Pkt., 10c; oz., \$3.00.

SEPARATE COLORS.—We can furnish Giant Flowered Pansies in following colors:

Giant White.—Pkt., 10c; ¼ oz., \$1.00.
Giant Yellow.—Pkt., 10c; ¼ oz., \$1.00.
Giant Red.—Pkt., 10c; ¼ oz., \$1.00.
Giant Blue.—Pkt., 10c; ¼ oz., \$1.00.
Giant Purple.—Pkt., 10c; ¼ oz., \$1.00.
Giant Black.—Pkt., 10c; ¼ oz., \$1.00.

FINE MIXED.—Many good sorts and a variety of color. Pkt., 5c; ¼ oz., 60c; oz., \$2.00.

A SMALL SUM FOR ANNUAL FLOWER SEEDS WILL GIVE ABUNDANT RETURNS

PETUNIAS

No garden is complete without a bed of elegant petunias. They commence flowering early and continue a mass of bloom until killed by frost; easily cultivated.

LITTLE PET.—(Howard's Star.)—Round, bushy little plants about 3 inches high, covered with beautiful flowers with a distinct five-pointed star in the center. Pkt., 15c.

BLUE BIRD.—Steel blue, a bright color. Pkt., 10c.

ROSY MORN.—Half dwarf, pink. Pkt., 10c.

GENERAL DODDS.—Half dwarf, blood red. Bright and attractive. Pkt., 10c.

NORMA.—Half dwarf, blue and white. Pkt., 10c.

INIMITABLE.—Half dwarf, blotched and striped. Many different shades of color. Pkt., 10c.

GRANDIFLORA MIXED.—Large, flowers with beautiful shades of crimson, white, rose, maroon, blotched, striped, veined and fringed. Pkt., of 200 seeds, 10c; ¼ oz., 50c; oz., \$1.50.

BALCONY PETUNIAS

The newest and most popular type of petunias. They are half dwarf and of modified trailing habit. Fine for porch and window boxes.

BALCONY MIXED.—Above and many other shades mixed. Pkt., 15c; ¼ oz., \$3.00.

BALCONY WHITE.—Pkt., 15c.

BALCONY ROSE.—Pkt., 15c.

BALCONY BLUE.—Pkt., 20c.

BALCONY RED.

—Pkt., 15c.



BALCONY PETUNIAS

PHLOX DRUMMONDI

If we could have but one flower for our garden that one would be the Phlox. A brilliant, almost dazzling show; continual bloom. Perennial Phlox on page 43.

GRANDIFLORA MIXED.—Large-flowering strain. Colors white to nearly black, including pink, red, violet, crimson, purple, yellow, blue, scarlet and brown. Striped and blended in an indescribable manner. Pkt., 10c; ¼ oz., 50c; oz., \$1.00.

Can also supply separate colors as follows: **White, Yellow, Pink, Violet, Scarlet, Crimson.** Any color, pkt., 10c; ¼ oz., 50c; oz., \$1.50.

POPPIES

Perennial Poppies on page 44.

KING EDWARD.—Extra tall, extra large scarlet flowers. Wonderfully showy. Pkt., 10c; ¼ oz., 40c.

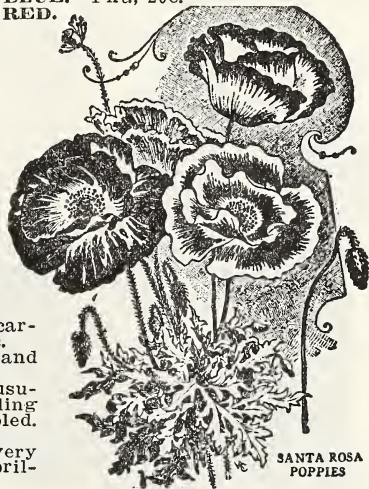
AMERICAN FLAG.—Double flowers of white and scarlet, a striking contrast of beauty. Pkt., 10c; ¼ oz., 25c.

MEPHISTO.—Scarlet with black spots. Grows tall and strong and is very showy. Pkt., 10c; ¼ oz., 40c.

SANTA ROSA MIXED.—Improved Shirley poppy; unusually large flowers of remarkably clear colors, including new striped salmon and blush shades. Petals crumpled. Pkt., 5c; ¼ oz., 25c; oz., 75c.

PAEONY FLOWERED.—A robust type 2 feet high; very large flowers, round, smooth, double, of exceeding brilliancy. Mixed colors. Pkt., 5c; ¼ oz., 20c; oz., 50c.

CARNATION FLOWERED.—Beautiful form and colors of the favorite type of old-fashioned double poppies. Pkt., 5c; ¼ oz., 20c; oz., 50c.



SANTA ROSA
POPPIES

PORTULACA

GRANDIFLORA SINGLE MIXED.—Also called rose moss. Forms a brilliant, striking bed of color, on bright, sunny days, and blooms brightest in mid-day hours. Very dwarf low-growing; forming a mat. Pkt., 5c; ¼ oz., 25c; oz., 75c. Also separate colors as follows: **White, primrose, yellow, pink, scarlet, crimson.** Pkt., 10c; ¼ oz., 35c; oz., \$1.00.

DOUBLE MIXED.—These old favorite flowers are double as a rose, brilliant shades of white, yellow, crimson, scarlet, and pink. Pkt., 10c; ¼ oz., 75c.

RICINUS

Castor oil plant. Stately foliage plants. Very popular for screens, borders or clumps to provide majestic tropical effects. Said to keep out moles. Give good soil and sunny situation.

CAMBODGIENSIS.—Large palm-like leaves of reddish maroon with red veins, covered with bronzy luster. Seed pods fiery red. Pkt., 10c; oz., 25c.

SANGUINOSUS.—Blood red stalk; very attractive, giving tropical effect in clumps or screens. Pkt., 5c; oz., 15c.

ZANZIBARENSIS.—Grows to a height of 12 to 14 feet with leaves 2 to 4 feet across. Pkt., 10c; oz., 25c.



SINGLE PORTULACA

BALCONY PETUNIAS IN CENTER EDGED WITH PORTULACA MAKES A BRIGHT BED

SALPIGLOSSIS

Plants about 18 in. high, bearing through the season large flowers 3 to 4 inches across, of beautiful colors.

NEW VARIVEINED.

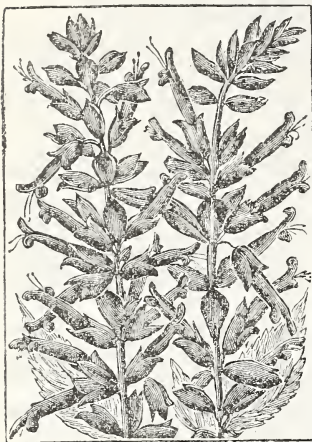
Surface soft and velvety, colors marvelous, including blue, velvety plum color, maroon, crimson, brown, gold and yellow, white, dark purple, black and brilliant scarlet, beautifully veined and mottled. Pkt., 10c.

SALVIA

Perennial Blue Salvia page 47
SPLENDENS.—Free bloomers. Brilliant scarlet. One of the most satisfactory bedding plants. Pkt., 10c; ¼ oz., 75c; oz., \$2.50.

BONFIRE.—Dwarf, free blooming sort. Much earlier than Splendens and brighter color. Pkt., 10c; ¼ oz., 90c.

FAVINACEA.—The blue flowered annual type. Pkt., 10c; ¼ oz., 85c.

**SALPIGLOSSIS****SALVIA****SCABIOSA**

Perennial Scabiosa on page 44.

LARGE FLOWERED MIXED.—Handsome border plant, producing double flowers in variety of shades and colors; splendid for bouquets. Pkt., 5c; ¼ oz., 15c; oz., 50c.

SENSITIVE PLANT

Very pretty and curious plant, its leaves closing when touched. Seeds start slow and it is best to start them in boxes; cover shallow and see they do not dry out; it makes a good house plant for the winter and pleases the children. Pkt., 10c.

SUNFLOWER

The sunflowers are attractive for screens, borders, clumps and among shrubbery.

DOUBLE DWARF.—Growing 4 to 6 feet; beautiful double flowers. Pkt., 10c.

GLOBE OF GOLD.—A new double, about 7 feet high; branching stems; in bloom it seems a mass of yellow. Pkt., 10c; oz., 25c.

EXCELSIOR BRANCHING.—Has a single flower about 5 inches across producing a pyramid of bloom. Pkt., 5c.

RAINBOW SUNFLOWER.—Grows 5 to 8 feet, branching freely. Colors range in shades of red. Pkt., 10c.

SWEET WILLIAMS

For Perennial Sweet William see page 45.

ANNUAL.—Blooms first year only. Pkt., 10c.

VERBENA

Deservedly a universal favorite. A constant bloomer and if grown from seed has a sweet fragrance. Splendid for beds of mixed colors.

Mammoth White.—Pkt. 10c, ¼ oz. 40c, oz. \$1.50.

Mammoth Pink.—Pkt. 10c, ¼ oz. 40c, oz. \$1.50.

Mammoth Red.—Pkt. 10c, ¼ oz. 45c, oz. \$1.60.

Mammoth Blue.—Pkt. 10c, ¼ oz. 50c, oz. \$1.75.

Mammoth Purple.—Pkt. 10c, ¼ oz. 40c, oz. \$1.50.

Mammoth Mixed.—From the finest foreign collection of mammoth named sorts. Pkt. 10c, ¼ oz. 35c, oz. \$1.00.

BANNER VERBENA COLLECTION

Red, White and Blue.—One packet each of our national colors of seed from mammoth types. **Banner Collection**, 25c, postpaid.

VIRGINIA STOCKS

Early blooms in colors of white, rose and red. Grows only 6 inches high and is fine for borders or rockery. Pkt. 10c, ¼ oz. 25c.

ZINNIA

Strong growing, hardy and elegant plants, colors are bright and varied and range from pure white to purplish crimson. Offered by some as Dahlia flowered Zinnias.

ROBUSTA GRANDIFLORA.—Strong growth and large flowers. Grows 3 ft. high and produces flowers 5 in. across. Mixed colors. Pkt., 10c; ¼ oz., 35c; oz., \$1.00.

Robusta White.—Pkt., 10c; ¼ oz., 50c; oz., \$1.50.

Robusta Yellow.—Pkt., 10c; ¼ oz., 50c; oz., \$1.50.

Robusta Orange.—Pkt., 10c; ¼ oz., 50c; oz., \$1.50.

Robusta Chestnut.—Pkt., 10c; ¼ oz., 60c; oz., \$2.00.

Robusta Pink.—Pkt., 10c; ¼ oz., 50c; oz., \$1.50.

Robusta Red.—Pkt., 10c; ¼ oz., 60c; oz., \$2.00.

Robusta Purple.—Pkt., 10c; ¼ oz., 60c; oz., \$2.00.

SPLENDOR MIXED.—This splendid strain of Zinnia is grown by us with special care. The finest colors and blooms and plants. Pkt., 5c; ¼ oz., 35c; oz., \$1.00.

PIGMY OR LILIPUT.—Plants are small and of bushy growth, each one bearing scores of beautiful little blossoms. A fine border for Robusta type. Pkt., 10c; ¼ oz., 50c

**ZINNIA**

NOTE THE BANNER COLLECTIONS ILLUSTRATED ON OUTSIDE BACK COVER PAGE

SPENCER SWEET PEAS

The distinguishing characteristics of the type is the wavy, orchid-like appearance of the blossoms. They are strong, robust in growth, with extra large flowers of exquisite, delicious beauty. If you want sweet peas for cut flowers plant the Spencers. We offer you a beautiful display of best varieties and varied colors.

APPLE BLOSSOM.—Standard bright rose, wings white flushed rose. Pkt., 10c; oz., 25c; ¼ lb., 75c.

AVALANCHE.—Very large, pure white. Pkt., 10c; oz., 35c; ¼ lb., \$1.

BARBARA.—Salmon color without shading. Pkt., 10c; oz., 25c; ¼ lb., 75c.

BLUE BIRD.—Splendid bright blue. Pkt., 10c; oz., 35c; ¼ lb., \$1.00.

CAMPFIRE.—The brightest scarlet. Pkt., 10c; oz., 35c; ¼ lb., \$1.00.

CRIMSON KING.—Bright crimson. Pkt., 10c; oz., 35c; ¼ lb., \$1.00.

ELFRIDA PEARSON (No. 3).—A most lovely shade of pink. Pkt., 10c; oz., 30c; ¼ lb., 75c.

FIERY CROSS.—Standard bright orange scarlet, wings rich orange cherry. Pkt., 10c; oz., 30c; ¼ lb., \$1.

FLORENCE MORSE.—Delicate rose, shaded darker pink at edges. Pkt., 10c; oz., 30c; ¼ lb., \$1.00.

HUNTSMAN.—Sunproof bright scarlet. One of the newer reds. Pkt., 10c; oz., 50c; ¼ lb., \$1.50.

KING EDWARD.—Splendid bright red. Old standard sort. Pkt., 10c; oz., 25c; ¼ lb., 75c.

KING MANOE.—Deep rich maroon. Pkt., 10c; oz., 30c; ¼ lb., \$1.

KING WHITE (No. 1).—The best white, deeply waved and curled. Pkt., 10c; oz., 30c; ¼ lb., \$1.00.

MAJESTIC CREAM.—Primrose yellow. Pkt., 10c; oz., 35c; ¼ lb., \$1.

MASTERPIECE (No. 4).—Lavender with wings of French gray. Pkt., 10c; oz., 30c; ¼ lb., \$1.00.

OLYMPIA.—Deep rich purple. Pkt., 10c; oz., 35c; ¼ lb., \$1.00.

PINKIE.—Extra large bright pink. Pkt., 10c; oz., 50c; ¼ lb., \$1.50.

POWERSCOURT.—Solid deep lavender. Pkt., 10c; oz., 35c; ¼ lb., \$1.00.

PRIMROSE.—Finest of primrose shade. Pkt., 10c; oz., 30c; ¼ lb., \$1.00.

PRINCE OF ORANGE.—Deepest orange. A distinct new color. Pkt., 10c; oz., 50c; ¼ lb., \$1.50.

REFLECTION.—The newest and best blue. Pkt., 10c; oz., \$1.

ROYAL PURPLE (No. 2).—Warm rosy purple, younger flowers a softer tone. Pkt., 10c; oz., 30c; ¼ lb., \$1.00.

SUNPROOF.—Rich crimson. Pkt., 10c; oz., 30c; ¼ lb., 75c.

SUPREME.—Large bluish pink. Pkt., 10c; oz., 35c; ¼ lb., 80c.

THE PRINCE.—The newest crimson. A novelty of great merit. Pkt., 10c; oz., 50c; ¼ lb., \$1.50.

WARRIOR.—Deep maroon. Pkt., 10c; oz., 30c; ¼ lb., 75c.

WEDGEWOOD BLUE (No. 5).—It is a beautiful lively blue in its entirety. Pkt., 10c; oz., 30c; ¼ lb., \$1.00.

WHAT JOY.—Primrose, cream. Pkt., 10c; oz., 35c; ¼ lb., \$1.

YOUTH.—(No. 6)—A dainty flower of white with bright pink edge. Makes a bouquet by itself. Pkt., 10c; oz., 30c; ¼ lb., \$1.

SPENCER MIXED.—This is a choice mixture of the Spencer types and varieties. Contains many sorts not named in our list. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50.

GRANDIFLORA SWEET PEAS

The sweet peas here offered are of the grandiflora class, and are grown for us by the best specialists in America. The stocks from which they are produced are not surpassed by any, and we know from the reported experience of our friends that the results from planting our sweet peas are most satisfactory. We offer what we know to be the cream of the list.

IMPERIAL MIXED.—Many of the best sorts carefully selected so as to get the proper proportion of each color in assortment. Pkt. 10c, oz. 25c, ¼ lb. 65c, lb. \$2.00.

PERENNIAL SWEET PEAS.—(Lathyrus.)—A very popular perennial variety. Mixed. Pkt. 10c, oz. 60c.

Diversity Collection

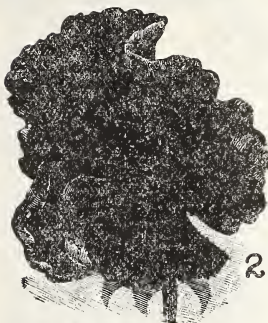
15 Packets—15 Colors
The most beautiful collection of sweet peas, \$1.00 Postpaid.

One packet of each of the choicest Spencers, as named and described here.

Apple Blossom
Barbara, Campfire
Elfrida Pearson
Fiery Cross
Florence Morse
King Manoe
King White
Primrose Spencer
Masterpiece, Olympia
Royal Purple
Sunproof Crimson
Wedgewood Blue
Youth

One packet of each \$1.00

One ounce of each \$3.00.





ADLUMIA



BALSAM APPLE (Momordica)



BALLOON VINE



CANARY BIRD FLOWER

ORNAMENTAL VINES

Nothing adds more to homelike appearance of a place than the pleasant shade of vines over the porches, and climbers on trellises, trees, fences, and outbuildings.

ADLUMIA CIRRHOSA.—Resemble foliage of Maiden Hair Fern. Hardy biennial climber, growing readily from seed; blooms second year; pink and white flowers. Plant in a cool, moist place. Pkt., 10c; $\frac{1}{4}$ oz., 75c.

AMPELOPSIS VEITCHII, or Boston Ivy.—The popular perennial vine used for covering brick and stone walls, to which it clings without support. Permanent and beautiful. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

ARISTOLOCHIA (Dutchman's Pipe Vine.)—Vigorous and rapid growing climber used extensively for archways or verandas. Singular brownish colored flowers, resembling in shape a pipe. The leaves are heart-shaped. Hardy perennial. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

BALLOON VINE.—A pretty, rapid growing climber, succeeding best in a warm situation. Flowers white, followed by balloon-like seed pods. Pkt., 5c; oz., 30c.

BEANS—Scarlet Runner.—A large bean, brown in color, producing brilliant scarlet flowers in racemes. Beans are edible, like limas. Pkt., 10c.

BIGNONIA RADICANS.—(Trumpet Creeper.)—Fine for any spot when showy flowers are desired. It has clusters of large, trumpet-shaped crimson flowers with orange throat. Hardy, perennial. Pkt., 10c.

BITTER SWEET.—A hardy native vine much prized for its beautiful orange seed pods for winter decoration in the home. Pkt. 10c, $\frac{1}{4}$ oz. 50c.

BRYANOPSIS.—Yellow flowers, followed by pretty cherry-like green fruits which change to bright scarlet, marbled with white. Pkt., 10c; oz. 40c.

CARDINAL CLIMBER.—A hybrid of Cypress Vine and Morning Glory. Grows 15 to 20 feet high, bright cardinal flowers 1 to 1½ inches in diameter. Of merit for porch and arbor uses. Pkt., 10c; $\frac{1}{4}$ oz., 60c; oz., \$2.00.

CANARY BIRD FLOWER.—Delicate, finely-cut foliage and curious bright yellow flowers, resembling the canary bird in shape and color. Pkt., 10c; oz. 30c.

COBOEA SCANDENS.—A magnificent climber of rapid growth and beautiful blue flowers. The seed should be planted edge-wise. Pkt., 10c; $\frac{1}{4}$ oz. 25c; oz. 75c.

CYPRESS VINE.—Beautiful rapid climber with delicate, dark green foliage and an abundance of star-shaped scarlet and white blossoms. Mixed colors. Pkt., 5c; oz., 40c.

DOLICHOS.—(Hyacinth Bean.)—Mixed Colors.—A rapid growing annual climber flowering freely in clusters followed by ornamental pods. Pkt., 5c; oz., 15c.

GOURDS.—Ornamental Mixed.—A mixture of the odd-shaped and fancy-colored sorts. Contains the most popular and handsome foreign varieties. Pkt., 5c; oz., 25c.

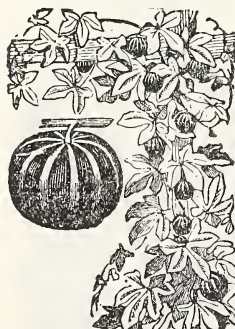
HUMULUS.—(Hop.)—New Japanese Variegated.—Handsome climbing vine, for trellis and high places. Leaves are strikingly marked and blotched silvery white tinged yellow. A perennial. Pkt., 10c; $\frac{1}{4}$ oz., 35c.

KENILWORTH IVY.—Grown in rock gardens and for ground covering. Bright green foliage, small lilac flowers. Pkt., 10c.

KUDZU VINE.—Jack and the Beanstalk.—Hardy, starts in spring and grows to 40 feet in a season. Large foliage and clusters of pea-shaped purple flowers. Pkt., 10c; oz., 75c.

MAURANDIA.—For windows or conservatories. To hang from vases; also for outdoor plantings where slender, graceful vines are wanted. Mixed. Pkt., 10c.

MOMORDICA.—Mixed.—A rapid growing vine bearing large, bright colored fruits known as Balsam Apple and Balsam Pear. Fruits are golden yellow, opening when ripe, showing a bright carmine center. Pkt., 5c; $\frac{1}{4}$ oz., 25c.



BRYANOPSIS



CARDINAL CLIMBER



COBOEA SCANDENS



GOURDS

WE OFFER A VERY COMPLETE LIST OF VINES. (CONTINUED ON NEXT PAGE)

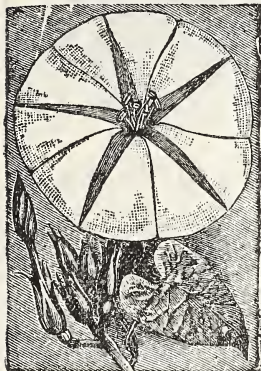
MORNING GLORIES

IMPERIAL JAPANESE.—Remarkable for the large size and exquisite new colors. Grow quickly to a height of 12 to 20 feet. Flowers sometimes measuring four or five inches across. Colors, shading and markings excellent. Pkt., 10c; oz., 25c.

IMPROVED CLIMBING.—A great improvement on the old climbing morning glory. Large size; great variety. Pkt., 5c; oz., 20c; ¼ lb., 60c.

HEAVENLY BLUE.—Large, bright blue flowers of great beauty. Plant with the moonflower to furnish contrast in beauty. Pkt., 10c; oz., 50c.

MOONFLOWER.—(*Ipomoea grandiflora*).—One of the grandest summer climbers, growing 25 to 40 feet high and covered nightly and dull days with beautiful flowers 5 to 6 inches diameter. Fragrant.



MOONFLOWER

White.—Pkt. of 5 seeds, 10c; oz., 50c.

Pink.—Pkt. of 5 seeds, 10c; oz., 50c.

Blue.—Pkt., 10c; oz., 50c.

THUNBERGIA.—(Black Eyed Susan).—A popular annual climber. Quick growing. Flowers in shades of yellow and white. Pkt. 10c, ¼ oz. 40c.

WILD CUCUMBER.—A well-known vine common in many sections, and the quickest climber known. Reaches height of 30 feet in one season. Pkt. 10c, oz. 40c.

WISTARIA.—One of the most popular hardy vines, climbing to a height of 50 feet or more. A perennial easily grown from seed. Color lilac blue. Pkt., 10c.



IMPERIAL JAPANESE MORNING GLORIES

EVERLASTINGS

Very attractive for winter decoration. They are rich, brilliant colors, fine for dried bouquets. Cut when in full bloom, tie in small bunches and hang heads down in a warm, sunny place to dry.

AMOBUM.—*Alatum Grandiflora*.—A pretty everlasting, double white flower. A lasting flower for winter. Pkt., 5c.

ACROCLINIUM.—*Mixed Colors*.—Large, double, very delicate flowers. Colors white, pink and red. One of the best everlastings. Pkt., 5c; oz., 40c.

GLOBE AMARANTH.—(*Gomphrena*).—*Mixed Colors*.—Popularly known as "Bachelor Buttons." Handsome, globular heads of flowers. Colors purple, white, flesh, orange and striped. Pkt., 5c; ¼ oz., 10c; oz., 30c.

HELICHRYSUM.—*Monster Mixed*.—A very pretty and popular hardy annual bearing large double flowers of different colors. Commonly known as "straw flowers." Pkt., 5c; ¼ oz., 20c; oz., 60c.

JOB'S TEARS.—An ornamental grass known botanically as *Coix Lachryma*. Produces beautiful seeds about ¼ inch in diameter; used for fancy work. This seed is for planting. Pkt., 5c; oz., 15c.

PENNISTEUM.—*Rueppellianum*.—Commonly called Purple Fountain Grass. Popular for borders to beds of cannas and large bedding plants. Pkt., 10c.

RHODANTHE.—*Mixed Colors*.—For winter bouquets blossoms should be gathered before fully expanded; if dried, retain brilliancy for years. Pkt., 10c.

STATICE.—*Sinuata*.—(*Russian Statice*). Mixed colors of lavender, rose, yellow and white. Grows tall with long spikes of lovely flowers which may be dried for winter bouquets. Pkt., 10c; ¼ oz., 20c.

STATICE.—(*Sea Lavender*).—See page 45.

XERANTHEMUM.—Free flowering and easily grown, making a handsome bed and attractive for winter decoration. All kinds mixed. Pkt., 10c.



ACROCLINIUM, FINEST MIXED



MONSTER HELICHRYSUM



WILD CUCUMBER



GLOBE AMARANTH.



ACHILLEA



ANCHUSA, CAPENSIS



AQUILEGIA

SEEDS OF HARDY PERENNIAL FLOWERS

ACHILLEA

THE PEARL.—Finest of all plants for cemetery planting. The flowers are good sized, forming a beautiful plant 18 inches high, completely covered with pure white flowers from July until frost. Pkt., 10c.

ACONITUM

(Monkshood.)—Handsome, bold spikes of hood-shaped flowers, effective in flower borders and shrubberies, are not planted in or near the kitchen garden. Roots are poisonous and might accidentally be used for food. Pkt., 10c.

AGATHEA

BLUE DAISY.—Also called Blue Marguerite. A perennial, which should have winter protection. Grows about 18 inches high, bearing abundantly, sky blue flowers on stiff stems. Pkt., 10c; ¼ oz., 75c.

ALYSSUM

SAXTILE COMPACTUM.—A fine plant for rockeries or for borders, growing about 12 inches high; bright yellow flowers in masses. Pkt., 10c.

AGROSTEMMA

A hardy plant introduced from Russia; pink-like blossoms on long, slender stems. Suitable for border plants; fine for bouquets or cemetery. Mixed colors. Pkt., 5c.

ANCHUSA

ITALICA DROPMORE.—A perennial growing three to five feet high with flowers of rich bright blue, borne abundantly. Pkt., 10c; ¼ oz., 40c.

CAPENSIS.—Cape Forget-Me-Not. —Not strictly a perennial but a hardy self-seeding annual. Larger flowers than the common Forget-Me-Not and grow about 18 inches high. Pkt., 10c; ¼ oz., 25c.

AQUILEGIA

(Columbine) — Deservedly popular, and bloom profusely through spring into early summer. Hardy perennial.

LONG SPURRED HYBRIDS.

—A much more robust species than the ordinary kinds. Colors show wide variations and beauty. Splendid, showy, lasting flowers. Pkt., 15c.

ANTHEMIS

HARDY MARGUERITE.—(Kelwayii.) Grows about two feet high, bright yellow flowers of daisy form. Fine for cutting and blooms all summer. Hardy perennial. Pkt., 10c; ¼ oz., \$1.00.

ARABIS

ALPINA.—Among the earliest blooming plants; very useful for rockwork, edgings, carpet bedding, etc. Flower pure white; plant 9 in. high, hardy perennial. Pkt., 10c.

ARMERIA

SEA PINK OR THRIFT.—(Formosa.) A fine perennial bearing rosy pink flowers on stems a foot long, which stand up and retain their beauty a long time when cut. Pkt., 10c; ¼ oz., 75c.

AUBRETIA

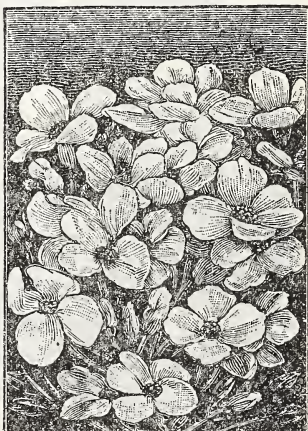
RAINBOW ROCK CRESS.—A beautiful dwarf rock plant covered with sheets of bright flowers in spring and early summer. Large flowered. Pkt., 10c; ¼ oz., \$1.00.



ANCHUSA, ITALICA DROPMORE



AGATHEA BLUE DAISY



ARABIS, ALPINA

YOU CAN PLANT SEEDS OF PERENNIALS ANY TIME DURING THE SUMMER



**BIDENS
ASTER**

(*Michaelmas Daisy*).—These light up the borders and shrubberies with their masses of bright color up to frost. To cut for decoration, they provide an inexhaustible supply. Pkt., 10c.

BIDENS

(*Black Dahlia* or *Cosmos*).—The plants grow 2½ feet high, producing abundance of crimson-maroon colored flowers of velvety texture about 4 inches in diameter. Fine cut flowers. Pkt., 10c.

BOLTONIA

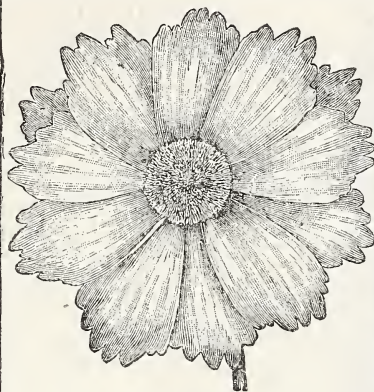
FALSE CHAMOMILE.—A native hardy perennial growing four to six feet high, bearing massive heads of pink and white flowers. Blooms from July to September. Pkt., 10c; ¼ oz., \$1.50.

BOCCONIA

PLUME POPPY.—Grows two to three feet, and is very effective singly or in groups. Flowers cream colored on long spikes. Hardy perennial. Pkt., 10c; ¼ oz., 30c.

BUDDLEH

BUTTERFLY SHRUB.—Lilac-colored flowers blooming in midsummer, and sometimes called "summer lilac." Desirable plant for back-grounds. Pkt. 10c; ¼ oz. 75c.



**CALLIOPSIS
CALLIOPSIS**

LANCEOLATA.—Golden Coreopsis. One of the most showy hardy perennials, forming plants 2 or 3 feet high, bearing in profusion large flowers of bright golden yellow. Unequalled for cutting. Grows anywhere. Pkt., 10c; ¼ oz., 25c; oz., 75c.

CAMPANULA

CUP AND SAUCER.—A Canterbury Bell of unique form. Colors are white, pink and blue. Pkt., 10c; ¼ oz., \$1.

CARPATICA.—(Harebell.)

—A very beautiful perennial bright blue bell-flower, rather dwarf. Sow early in light, rich soil for first year blooms. Pkt., 10c; ¼ oz., 50c.

PERSICIFOLIA.—(Peach-

bell.)—Grows two to three feet with large blue flowers. One of the best hardy bell-flowers. Pkt., 10c; ¼ oz., \$1.00.

PYRAMIDALIS.—Grows 5 ft. high. Long spikes of blue flowers. Pkt., 10c; ¼ oz., \$1.

CANTERBURY BELLS

These are wonderfully fine perennials, which if well grown will often reach 3 feet in height. Color of flowers blue, rose or white. Double and single mixed colors. Pkt., 10c; ¼ oz., \$1.00.



**CANTERBURY BELLS
CANDYTUFT**

(*Iberis Semperflorens*).—A dwarf plant producing clusters of handsome white flowers. One of the finest perennial plants for mass bedding. Pkt., 10c; ¼ oz., \$3.00.

CENTAUREA

MONTANA.—(Perennial Cornflower).—Hardy perennial variety of Centaurea, growing two feet high, with large violet-blue flowers during summer. Pkt., 10c; ¼ oz., 40c.

CERASTIUM

TOMENTOSUM.—(Snow in Summer).—A low growing perennial with white foliage and small white flowers. For permanent borders or edgings. Pkt., 10c; ¼ oz., \$1.00.

CHINESE LANTERN

(*Physalis*).—Very showy, about 18 inches high; bears large, red, cherry-like fruits, each enclosed in enormous balloon-like calyx, about 3 inches long, first green, then yellow, then orange, then crimson. Pkt., 10c.

CYNOGLOSSUM

AMABLE.—(Chinese Forget-Me-Not).—A lovely plant 18 to 24 inches high with lovely blue flowers. It is splendid for cut flowers. Pkt., 10c; ¼ oz., 60c.



BOCCONIA, CORDATA



CHINESE LANTERN PLANT



BOLTONIA, GLASTIFOLIA

PERENNIALS ARE POPULAR AS THEY GIVE MOST BLOOMS FOR THE LEAST CARE



DELPHINIUM



FOXGLOVE

FOXGLOVE

A showy perennial now planted extensively for permanent backgrounds, borders and clump effects. Splendid for harmonizing with plantings of shrubs and thrives in any ordinary garden soil.

NEW SHIRLEY.—A greatly improved strain growing 4 to 5 feet high, producing long spikes of very large flowers. The newest and best Foxglove. Pkt., 10c; $\frac{1}{4}$ oz., 75c.

MIXED COLORS.—The common sorts in mixture to produce a wide range of colors. Pkt., 5c.

DELPHINIUM OR HARDY LARKSPUR

Few plants are so handsome in the garden as these perennial Larkspurs. There are many species in cultivation but the most important are the tall hybrids of which we hold a large and up-to-date assortment including the very newest.

BELLADONNA.—Light blue. Long spikes, striking in appearance. A general favorite. Pkt., 10c; $\frac{1}{4}$ oz., \$2.00.

BELLAMOSUM.—Dark blue. Use this with Belladonna for contrast. Pkt., 10c; $\frac{1}{4}$ oz., \$2.00.

CARDINAL.—Scarlet. To afford the range of color so desirable in mixed beds or borders. Pkt., 10c; $\frac{1}{4}$ oz., \$2.00.

GOLD MEDAL HYBRIDS.—A splendid strain. Immense spikes with large flowers. Mixed colors. Pkt., 10c; $\frac{1}{4}$ oz., \$2.00.

HOLLYHOCK STRAIN.—An English selection of hybrids of extra size and beauty. Pkt., 20c; $\frac{1}{4}$ oz., \$4.00.

DAISY

BEST DOUBLE MIXED.—Low growing; for massed beds or borders. Known as English Daisies. Perennial. Pkt., 10c.

EUPATORIUM

HARDY AGERATUM.—(Thoroughwort.)—Grow strong and upright two to three feet. Flowers resemble the annual ageratum, but the plant is a hardy perennial.

PURPUREA.—Violet. Pkt., 10c.

AGERATOIDES.—White. Pkt., 10c.

GAILARDIA

Blanket Flower. Exceedingly beautiful, making very showy plants, 1 to 2 feet high. Grown in mass are especially effective.

GRANDIFLORA.—A splendid perennial with very large flowers, dark crimson centers, marked with rings of many brilliant colors. Pkt., 10c; $\frac{1}{4}$ oz., 20c; oz., 50c.

GEUM

COCCINEUM PLENUM (Avens).— $1\frac{1}{2}$ ft.; flowers are double, bright scarlet in color and last well when cut. Very large and profuse bloomer. Pkt., 10c.

GRASS PINKS

(*Dianthus Plumarius*.)—The hardy and pretty clove-scented flowers so much loved by our grandmothers. Their fragrance is pronounced. Colors range from pure white to dark pink, mostly a clear, delicate pink. A hardy perennial, fine for borders. Mixed. Pkt., 5c; $\frac{1}{4}$ oz., 20c.

GYPSOPHILA

PANICULATA.—The perennial "Baby's Breath" which bears very small white flowers in clusters on long stems. Very graceful and useful in bouquets. Easily grown from seed and can remain for years. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

HELIANTHUS

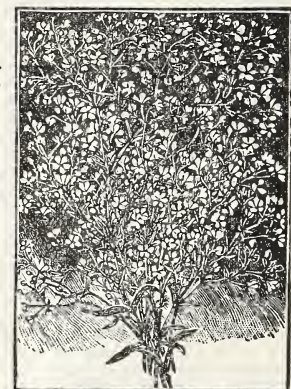
MULTIFLORUS PLENUM.—Hardy sunflower. Flowers from 2 to 4 inches in diameter, double as any double dahlia and cover the plant. Color a bright golden yellow. Give it a sunny position and a rich soil. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

HIBISCUS

MARVEL MALLOW.—Extremely large flowers on shrub-like plants four to six feet. Bright shades of white, yellow, pink and red. A great improvement of the common type of marshmallow. Mixed colors. Pkt., 10c; $\frac{1}{4}$ oz., 30c.



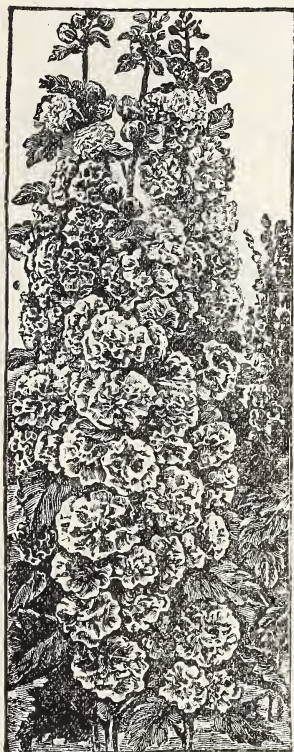
GRASS PINKS



GYPSOPHILA, PANICULATA



HIBISCUS



HOLLYHOCKS



HELIUM

HELIUM
AUTUMNALE.—(Sneezewort.)—Thrives in any good soil. grows 4 to 5 feet tall, and produces an abundance of bronzy yellow flowers in late summer. Hardy and keeps a long time when cut. Pkt., 10c; $\frac{1}{4}$ oz., \$1.

HOLLYHOCKS

No garden flower is more showy or admired. Start seeds in a box in the house in February or March; about May 1st transfer to a permanent place.

CHATER'S PRIZE DOUBLE MIXED.—Magnificent double flowers 3 to 4 inches across, of the brightest colors; flowers beautiful and perfect, massed completely around spikes. Mixture of all colors and shades. Pkt., 10c; $\frac{1}{4}$ oz., 50c; oz., \$1.50.

We can also supply double hollyhocks in separate colors white, pink, yellow, scarlet, maroon. Pkt., any color, 10c.

SINGLE MIXED.—Preferred by many to double sorts. Mixed colors. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

HESPERIS

MATRONALIS — (Sweet Rocket).—One of the sweetest scented flowers. Grow 2 to 3 feet, bearing purple flowers from June to August. Plant in April to bloom first season. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

HONESTY

(*Lunaria Biennies*).—Hardy biennial, thriving almost anywhere; especially useful in shady, damp places; the flowers of purple, crimson or white are followed by silvery transparent seed pods; prized for winter bouquets; height 2 feet. Mixed colors. Pkt., 10c.

LILIUM REGALE

REGAL LILY.—The new hardy lily from China, which is perfectly hardy, and can be established as a part of the permanent garden. Large blossoms of white, with shades of pink and yellow. Very lovely. Pkt. 25 seeds, 10c; 100, 25c.

LINUM

PERENNE.—A variety of perennial flax with graceful foliage and bearing flowers of light blue. Very attractive. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

LUPINUS

Extremely decorative in the garden and valuable for cutting. Some are tall while others are dwarf; attractive.

PERENNIAL MIXED.—Free flowering, succeeding in any good garden soil and blooming in May and June; 3 feet high. Mixed, a great variety of colors. Pkt., 10c; oz., 30c.

LYCHNIS

CHALCEDONICA.—(Firefly).—An old favorite, bearing large heads of bright scarlet flowers. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

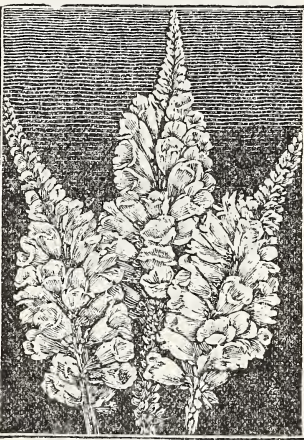
HAAGEANA.—(Maltese Cross).—More dwarf than above, but produce fine orange scarlet flowers. Pkt., 10c; $\frac{1}{4}$ oz., \$1.50.

PHYSOSTEGIA

VIRGINIA ALBA.—(False Dragon head).—Pure white; very fine, forming dense bushes 3 to 4 feet high, bearing spikes of delicate tubular flowers not unlike a gigantic heather. Pkt., 10c; $\frac{1}{4}$ oz., \$1.50.

PLATYCODON (Wahlenbergia)

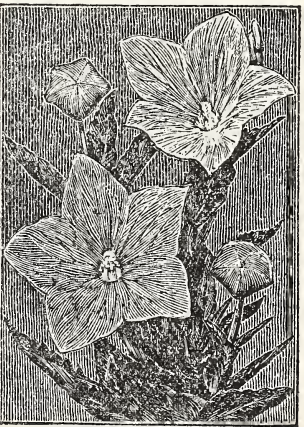
A bushy, herbaceous plant 2 to 3 feet, with handsome, deep green foliage. It blooms very profusely and continuously all summer if flowers are removed as soon as they begin to fade. Flowers are of large size, being $2\frac{1}{2}$ to 3 inches in diameter, and the various shades of blue, lavender and white. The plants increase in size from year to year. Pkt., 10c.



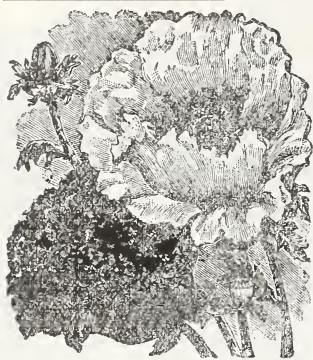
PHYSOSTEGIA



LUPINUS



PLATYCODON, MARIESI



ORIENTAL POPPY

PERENNIAL PHLOX

DECUSSATA.—Seeds of many varieties and colors of the perennial phlox in mixture. Bloom the second year and you can secure a wide range of color from seed. Sow in good soil and transplant as desired. Pkt., 10c; $\frac{1}{4}$ oz., \$1.00.

PENTSTEMON

FINEST MIXED.—Hardy perennial; sown early they will bloom first year. Of graceful growth with many spikes of Gloxinia-like flowers 2 inches across; of crimson, white, rose, purple, etc., beautifully edged and marked; blooms June to October. Pkt., 10c.

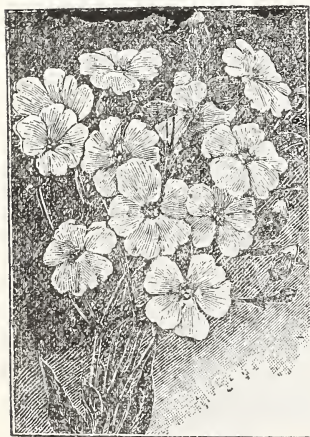
POLYANTHUS

PRIMULA VERIS.—Also called oxslip. Grows 6 to 9 inches high, bearing bright yellow flowers. Fine for rockeries. Pkt., 10c.

RUDBECKIA

PURPUREA.—(Giant Purple Coneflower.) A fine perennial 2 to 3 feet high, with reddish purple flowers like a single sunflower. Pkt., 10c; $\frac{1}{4}$ oz., \$1.

NEWMANII.—Center cone is dark brown; petals orange yellow shading to brown at the cone. A very bright flower produced on stalks 2 to 3 feet tall. Pkt., 10c; $\frac{1}{4}$ oz., \$1.00.



SAPONARIA, VACCARIA

PERENNIAL POPPIES

ORIENTAL HYBRIDS.—For brilliancy of color nothing to equal these Oriental Poppies. The flowers often measure 6 inches in diameter, colors range from soft flesh and rose to the most brilliant dazzling scarlet and richest maroon purple. Perfectly hardy, need but little protection, increasing in size and beauty every year. Pkt., 10c.

BRILLIANT.—Bright scarlet color, extremely showy. Pkt., 10c.

PRINCESS LOUISE.—Salmon or orange. A lighter shade to contrast with the darker sorts. Pkt., 10c.

ICELAND.—Flowers the first year from seed. Colors from purest white to deepest orange scarlet; very fragrant. Pkt., 10c.

SUNBEAM HYBRIDS.—A new and improved strain surpassing the older type of Iceland poppies in size and beauty. Pkt., 10c.



PERENNIAL PHLOX

SAPONARIA

OCYMOIDES.—Dwarf perennial variety for rockeries and edgings. Nine to 10 inches high. In bloom June to August with bright red, showy flowers in profusion. Pkt., 10c; $\frac{1}{4}$ oz., 35c.

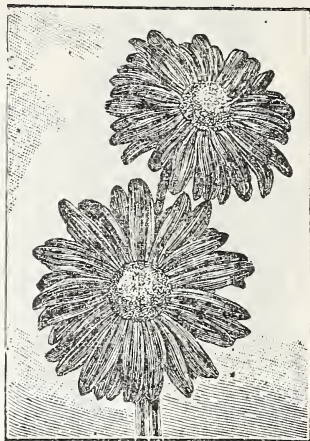
SHASTA DAISY

ALASKA.—A perennial, blooming better each season. Flowers about 4 inches in diameter, with three or more rows of white petals on single stiff wiry stems nearly 2 feet long. Pkt., 10c; $\frac{1}{4}$ oz., \$1.25.

KING EDWARD VII.—A variety of the hardy chrysanthemum, also known as "Shasta Daisies." The flowers are pure white, as large as the Alaska Shasta and are born in profusion. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

SIDALCEA

ROSE QUEEN.—Erect branching habit, producing bright pink flowers in June and July. Grow 2 to 3 feet and are lovely. Pkt., 10c.



PYRETHRUM

PYRETHRUM

ROSEUM HYBRIDUM.—(Painted Daisies.) The new creations in these show a wide range of beauty in colors. Large, daisy-formed flowers on strong stems, excellent for cutting. Shades of yellow, pink and red petals with yellow center. Pkt., 10c; $\frac{1}{4}$ oz., \$1.00.

ATROSANGUINEUM.—A mixture of red shades only but the range is from bright pink to deep blood red. Splendid for cut flowers, lasting a long time. Pkt., 10c.

GOLDEN FEATHER.—Grown in ribbon beds and borders for its beautiful golden yellow foliage which contrasts brightly with green of other plants. Pkt., 10c; $\frac{1}{4}$ oz., 35c.

POLEMONIUM

COERULEUM (Jacob's Ladder).—Foliage fern like, flowers sky blue with golden anthers. Blooms April to July. Grows 24 to 30 in. high. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

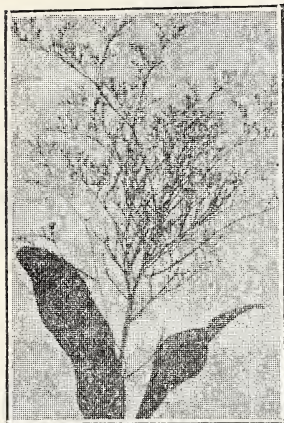
PRIMA DONNA.—Low growing type (12 inches) for borders. Flowers delicate sky blue. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

SCABIOSA

CAUCASICA.—(Blue Bonnet.) A very fine perennial variety of scabiosa growing 2 to 3 feet with lavender flowers which are splendid in bouquets as they last a long while after cutting. Pkt., 10c.



THE SHASTA DAISY



STATICE
SALVIA

AZUREA GRANDIFLORA.—A perennial Salvia growing two and a half feet tall, with flowers of light blue. Its stately habit makes it a fine show late in the fall. Pkt., 10c; ¼ oz., \$1.50.

PRATENSIS.—Dark blue flowers on tall stems. Pkt., 10c; ¼ oz., \$1.00.

SWEET WILLIAM

Well known, free blooming, hardy perennial plants which produce masses of lovely, brilliant, sweet-scented flowers through a long period, making a splendid effect in beds. One foot high. Mixed colors. Pkt., 10c; ¼ oz., 40c.

We also offer separate colors. White, Rose, Crimson, Pink, Blood Red, Scarlet, Turkey Red, Nearly Black. Any color, pkt., 10c; ¼ oz., 50c.

WALLFLOWER

Grow in long, brilliant colored spikes of flowers. Plants removed to pots in autumn will produce abundance of delightfully fragrant flowers of many colors.

DOUBLE MIXED.—Pkt., 10c; ¼ oz., 80c.



STATICE

LATIFOLIA.—(Sea Lavender)—Use in dried state for winter bouquets. Grows readily from seed. Illustration shows form as used for bouquets. Listed also among everlasting. Pkt. 10c, ¼ oz. 50c.

STOCKS

DOUBLE MIXED.—This is the cut-and-come-again type, growing 2 feet tall, in a wide range of color. Blooms in long spikes, ten to twelve weeks after sowing. Pkt., 10c; ¼ oz., 75c.

SPERGULA

PILIFERA.—A low growing evergreen plant for rockeries. Grown as a carpet covering of green. Pkt., 25c.

STOKESIA

CORN FLOWER ASTER.—Blooms July to October; blossoms look like Centaurea; beautiful blue lavender color. Splendid for long-lasting bouquets. Pkt., 10c.



STOKESIA, CYANEA MIXED

TRITOMA

Also called Red Hot Poker, Flame Flower and Torch Lily. We offer a new strain of hybrids which are perennials easily raised from seed, some of which will bloom the first year. Produce brilliant scarlet heads of bloom on long stalks, 3 feet tall. Pkt., 10c; ¼ oz., \$1.00.

TROLLIUS

LEDEBOURI (Globe Flower).—Bright orange flowers resembling buttercups, but larger. One to two feet, blooms in summer. Pkt. 20c.

ROCKERY PLANTS

There are a number of plants suitable for rockery work in our perennial list and we call attention to them here. You will find description and prices where listed.

Alyssum	Page 40
Arabis	Page 40
Aubretia	Page 40
Campanula	Page 41
Cerastium	Page 41
Saponaria	Page 44
Sidelcea	Page 44
Spergula	Page 45



PERPETUAL WHITE STOCKS

VALERIAN

OFFICINALIS (Garden Heliotrope).—Grows 3 to 4 ft., rosy white flowers, with strong heliotrope fragrance. Blooms June and July. Pkt., 10c; ¼ oz., 50c.

VERONICA

(Speedwell.)—A hardy border plant 18 to 20 inches high, with long spikes of blue flowers in June and July. Pkt., 10c; ¼ oz., \$1.00.

VIOLA CORNUTA

(TUFTED PANSIES)

Lovely flowers formed like pansies but not so large. Protect from summer heat and they'll bloom till frost.

ADMIRATION.—Deep dark blue. Pkt., 10c; ¼ oz., \$1.25.

BLACK PRINCE.—Velvety black. Pkt., 10c; ¼ oz., \$1.25.

LUTEA SPLENDENS.

Yellow. Pkt., 10c; ¼ oz., \$1.

MAUVE QUEEN.—Mauve or lavender. Pkt., 10c; ¼ oz., \$1.25.

PERFECTION BLUE.—Sky blue. Pkt., 10c; ¼ oz., \$1.25.

ROSEA.—New bright pink. Pkt., 10c; ¼ oz., \$1.50.

THURINGA.—Blue, white eye. Pkt., 10c; ¼ oz., \$1.50.

MIXED VARIETIES.—The above and other sorts mixed. Pkt., 10c; ¼ oz., \$1.25.



VIOLA CORNUTA

HARDY PERENNIAL PLANTS

Customers are learning that these require less care and are more satisfactory with ordinary culture than most other classes of plants. When once set out they bloom year after year, the flowers really becoming better as the plants grow older. These are all hardy, the tops dying down every winter, but coming up again in the spring. We prepay the postage.

For descriptions see our seed catalogue. Pages 40 to 45.

ACHILLEA—The Pearl.—Each, 30c; 3 for 75c.

ACONITUM—The Monkshood.—Each, 30c; 3 for 75c.

ALYSSUM—Saxatile Compactum.—Each, 30c; 3 for 75c.

ANCHUSA—Italica Dropmore.—Each, 30c; 3 for 75c.

ANTHEMIS—Hardy Marguerite.—Each, 25c; 3 for 60c.

AQUILEGIA—Columbine.—Each, 30c; 3 for 75c.

ARABIS ALPINA—Rockwort.—Each, 30c; 3 for 75c.

ARMERIA—Sea Pink or Thrift.—Each, 35c; 3 for 80c.

ASTER—Michaelmas Daisy.—Each, 25c; 3 for 60c.

BLEEDING HEART—Dicentra.—Each, \$1.00; 3 for \$2.50.

BOCCONIA—Plume Poppy.—Each, 30c; 3 for 75c.

BOLTONIA—False Chamomile.—Each, 25c; 3 for 60c.

CAMPANULA—Campanula.—25c; 3 for 60c.

CAMPANULA—Persicifolia.—30c; 3 for 75c.

CANTERBURY BELLS—Each, 30c; 3 for 75c.

CENTAUREA—Montana.—25c; 3 for 60c.

CERASTIUM—Snow in Summer.—30c; 3 for 75c.

CHRYSANTHEMUM—Any color. 25c; 3 for 60c.

CHINESE LANTERN PLANT—25c; 3 for 60c.

COREOPSIS—Lanceolata.—25c; 3 for 60c.

DAISY—Shasta.—Each, 25c; 3 for 60c.

DAISY—English Double.—20c; 3 for 50c.

DAY LILY—Funkia.—Each, 30c; 3 for 75c.

DELPHINUM—Hybrids.—25c; 3 for 60c.

DELPHINUM—Belladonna.—30c; 3 for 75c.

DELPHINUM—Bellamosum.—30c; 3 for 75c.

DIGITALIS—Foxglove.—Each, 30c; 3 for 75c.

EUPATORIUM—Ageratum.—30c; 3 for 75c.

GAILLARDIA—Grandiflora.—Each, 25c; 3 for 60c.

GEUM—Atrosanguineum.—40c; 3 for \$1.

GOLDEN GLOW—Rudbeckia Laciniata.—Illustrated on page 48. Each, 25c; 3 for 60c.

GRASS PINKS—Plumaris.—30c; 3 for 75c.

GRASS PINKS—Alwoodii.—30c; 3 for 75c.

GYPSOPHILA—Baby's Breath.—25c; 3 for 60c.

HELENIUM—Sneezewort.—25c; 3 for 60c.

HELIANTHUS—Hardy Sunflower.—Each, 25c; 3 for 60c.

HESPERIS—Sweet Rocket.—30c; 3 for 75c.

HEMEROCALIS—Orange Lily.—Each, 30c; 3 for 75c.

HIBISCUS—Rose Mal-low.—25c; 3 for 60c.

HOLLYHOCK—Your choice of color.—Each, 25c; 3 for 60c.

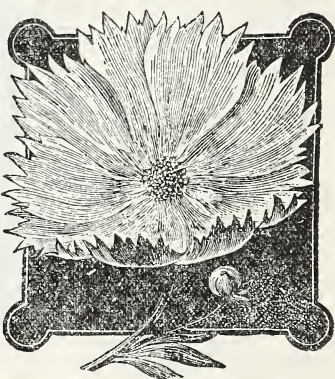
IBERIS—Perennial Candytuft.—Each, 30c; 3 for 75c.



CANTERBURY BELLS



BLEEDING HEART



CEREOPSIS LANCEOLATA



GAILLARDIA GRANDIFLORA



HOLLYHOCKS



HYBRID DELPHINUMS

PERENNIALS ARE A SOURCE OF MUCH PLEASURE WITHOUT GREAT EXPENSE



PEONIES

WHITE PEONIES

FESTIVA MAXIMA.—By far the finest double white peony grown. The flower is of immense size, perfectly globular. Appears extremely double. Color purest snow white with carmine marks in center. Early. Each, 50c; doz., \$5.00.

COURONNE D'OR.—Peculiar in form, as the blooms are rather flat, but in the center is a touch of white, with a few crimson splashes like Festiva Maxima. Medium height, rather later than other white sorts. Vigorous. Each, 50c.

MME. DE VERNEVILLE.—Very double and compact; color purest white, petals lightly spotted with red. A half dozen make a magnificent bed. Early. Each, 50c; doz., \$5.00.

BOULE DE NEIGE.—Lovely milk white flowers. Early midseason. Prolific, bearing flowers in clusters. Each, 50c; doz., \$5.00.

GRANDIFLORA NIVEA PLENA.—A rare and magnificent variety; flowers are enormous. Guards milk white, collar pure white, center sulphur yellow. Very early. Each, 50c; doz., \$5.00.

PINK AND ROSE PEONIES

EDULIS SUPERBA.—This is a very large, full flower of light pink. Popular because of its strong growth. Each, 50c; doz., \$5.00.

FLORAL TREASURE.—Is a very large, full flower, full growth; clear even pink with center bright rose. A most striking variety with abundance of extra large flowers. Each, 50c; doz., \$5.00.

DUCHESSE D'ORLEANS.—Medium large compact flower. Guards are deep pink, center shaded salmon, with silvery reflex. Fragrant. Extra strong. Each, 50c; doz., \$5.00.

JEANNE D'ARC.—One of the finest in the entire list. Flowers extra large and very double; exceedingly prolific; color soft, delicate bluish pink. Each, 60c; doz., \$6.00.

MEISSONIER.—Color of the American Beauty Rose. An especially choice sort. Foliage rich, glossy green. Flower is of large size, perfectly double. Each, 50c.

BRIGHT AND DARK RED PEONIES

RUBRA SUPERBA.—Has extra large balls of blood red, magnificent flowers. Probably the largest red variety in existence. Give it rich soil. Blooms late. Each, 75c; doz., \$7.50.

EDWARD ANDRE.—Deep purplish crimson, shining and satiny. Flower semidouble, rich and striking; early. Splendid sort for contrast. Midseason. Each, 60c; doz., \$6.00.

FELIX CROUSSE.—Double flower of bright red, differing from most in having practically no division of outer petals and center. Late midseason. Each, 75c; doz., \$7.00.

LOUIS VAN HOUTTE.—Enormous round blooms with extra large petals. Rich clear red color. Very fragrant. Late. Each, 50c; doz., \$5.00.

FRENCH IRIS

The true "Fleur-de-Lis," the national flower of France. Perfectly hardy, thrive anywhere, grow and bloom luxuriantly. We price them at 15 cents each or \$1.50 per dozen, except as noted.

ALCAZAR.—Standards light violet, falls brilliant purple. Height 36 inches.

CAPRICE.—Standards rosy red, with falls of same color, but deeper shade. Height 30 inches.

ELDORADO.—Standards light lavender, falls dark purple lined with bright golden yellow.

GERTRUDE.—Standards and falls of a rare and beautiful violet blue. A large flower.

HONORABILIS.—Standards golden yellow, falls golden bronze. Height 30 inches.

JUNIATA.—Clear deep blue throughout, a lovely tall growing flower. Height 40 inches.

KHEDIVE.—Beautiful soft lavender throughout. Goes well with Juniata. Height 30 inches.

LOHENGRIN.—Uniform shade of lilac-rose. Strong grower and free bloomer. Height 30 in.

LOVELY.—Standards canary, falls blue, bordered rich cream, a fine contrast in beauty. Height 30 inches.

MADAM CHEREAU.—Standards and falls pure white, with a border laced and frilled light blue.

PERFECTION.—Standards blue. Falls dark velvety purple with a black reflex. Remarkable.

PRINCESS VICTORIA LOUISE.—Standards pure sulphur yellow. Falls deep rich plum, bordered with a cream colored margin.

SUCCESSION IRIS BED

One plant each of 12 named sorts of French Iris, giving a contrast of color, postpaid for \$1.50.



FRENCH IRIS

GIVE YOUR ORDERS EARLY. GET THE STOCK PLANTED IN APRIL IF POSSIBLE

LILY OF THE VALLEY.—Well known, quite popular. Grows anywhere. Blooms early in spring. Doz., 50c.

LINUM—Perennial Flax.—Desirable for border or rockery. Large blue flowers in July. Each 25c; 3 for 60c.

LUPINUS (Lupine).—Tall growing, effective plants with long spikes of flowers. Illustrated on page 43. Thrive in partial shade and good soil. Each, 25c; 3 for 60c.

LYCHNIS (Campion).—Easily grown, brilliant orange flowers, growing two to three feet high. Popular with all lovers of hardy plants. Each, 25c; 3 for 60c.

ORIENTAL POPPY.—Wonderful, large, brilliant red flowers, on tall stems three feet high. Bloom in June and July and are striking in their beauty. Each, 35c; 3 for 85c.

PENTSTEMON (Beard Tongue).—In bloom all summer. A useful and showy flower. Further description on page 44. Each, 25c; 3 for 60c.

PHYSOSTEGIA (False Dragon Head).—Tall growing, dense bushes, four feet high. Illustrated on page 43. Bloom in midsummer. Each, 25c; 3 for 60c.

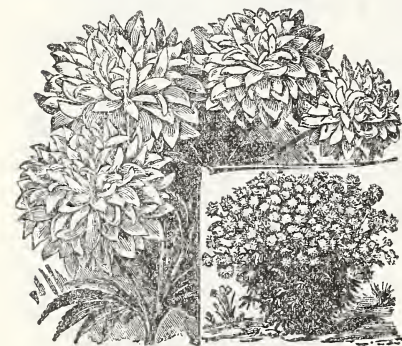
PLATYCODON (Wahlenbergia).—Also known as Japanese Bell Flower. Grows in bush form two feet high, with large blue and white flowers throughout the late summer and fall. Illustrated on page 43. Each, 25c; 3 for 60c.

PYRETHRUM (Painted Daisy).—A general favorite. Lovely shades of color on long stems, with fine attractive foliage. Retain their beauty a long time as cut flowers. See page 44. Each, 25c; 3 for 60c.

HARDY PHLOX

Each, 25c; Dozen, \$2.50.

ALBION.—White with red eye. **F. A. BUCHNER.**—Large pure white. **BRIDESMAID.**—White, crimson center. **ECLAIREUR.**—Bright rich carmine. **LORD RALEIGH.**—Purple. **MICHAEL BUCHNER.**—Pale lavender. **PANTHEON.**—Clear deep pink. **SIEBOLD.**—Orange scarlet, red eye. **RINJSTROOM.**—Lovely rose pink. **SIR EDWIN LANDSEER.**—Bright crimson. **TERRA NEUVA.**—Lavender, light eye. **THOR.**—Deep salmon pink, overlaid scarlet.



GOLDEN GLOW (RUDBECKIA)



YUCCA FILAMENTOSA.

HARDY PHLOX OFFER

One each of the twelve varieties listed above postpaid for only \$2.50.



HARDY PHLOX

RUDBECKIA—Cone Flower.—Yellow petals with brown center. Bloom in August. Each 25c; 3 for 60c.

RUDBECKIA (Golden Glow).—One of the most popular perennials. Bright yellow, dahlia-like flowers on tall stems. Grow four to six feet and are fine for screens, borders or clump effects. Good soil and a little cultivation produce wonderful plants. Each 25c; 3 for 60c.

SALVIA (Meadow Sage).—The blue flowered perennial Salvia, growing two to three feet high and in bloom from July to frost. Each 30c; 3 for 75c.

SCABIOSA (Blue Bonnet).—A most desirable perennial. The flowers of soft lavender color are in bloom all summer and are much prized for cut flowers. Each 30c; 3 for 75c.

SPIREA (Anthony Waterer).—Grows in shrub form, bearing spikes of bright crimson flowers. Each, 50c.

SPIREA (Billardi).—Similar to above variety, with pink flower spikes in plume formation. Each, 50c.

SPIREA (Thunbergia).—Grows compact with fine foliage and bears small white flowers in May. Each, 50c.

SEDUM—Dwarf Stone Crop.—Popular perennial. Blooms in July. Fine for rockeries. Each, 25c; 3 for 60c.

STATICE—Latifolia.—(Thrift.) Ready in August. Illustrated on page 45. Each 30c; 3 for 75c.

STOKESIA—Cornflower Aster.—Illustrated on page 45. Lovely large flowers in July. Each 25c; 3 for 60c.

SWEET WILLIAM.—Popular favorite, in variety. Bloom May and June. Each 25c; 3 for 60c.

TRITOMA (Red Hot Poker Plant).—Produce heads of bloom six to ten inches long on spikes three feet high. Blooms are orange scarlet at base, shading to light orange at top. Very striking and beautiful. Each, 30c; 3 for 75c.

VERONICA—Speedwell.—30c; 3 for 75c.

VIOLA—Tufted Pansy.—Each 40c; 3 for \$1.00.

YUCCA—Adams Needle.—Tall spikes, in June. Flowers white, large size, striking appearance. Each 25c; 3 for 60c.

ALL HOME GROUNDS SHOULD HAVE A FEW CLUMPS OF PHLOX AND GOLDEN GLOW

SUMMER FLOWERING BULBS

Many of the most showy, attractive, inexpensive and easiest grown flowers are contained in this important class. Few flowers can compare with the brilliant spikes of the gladiolus, the grace and elegance of the lily, the purity and sweetness of the tuberose, and the majestic foliage of the canna. Bulbs require but little care and quickly make a gorgeous display, while the bulbs can be kept over winter and year after year will return a hundred fold the original cost. Postpaid on receipt of price, except where noted.

CALADIUM

ESCULENTUM.—(Elephant's Ear).—A splendid tropical plant, growing 4 to 5 feet, with immense leaves. Very showy leaves, often growing three feet long. Of easy culture. Large bulbs, 40c; 3 for \$1.00.

CALLA LILIES

MAMMOTH WHITE.—Largest flowering variety and most majestic. It is of perfect flowering form with large tropical appearing leaves of bright green color and blooming throughout the season. Large size, each, 30c; 3 for 75c.

ELLIOTTIANA.—This yellow calla is of marvelous beauty. The flowers are very large and of the brightest golden yellow. Leaves beautifully spotted with white. Each, 35c; 3 for 90c.



CALADIUM ESCULENTUM.

CANNAS

DWARF SORTS (Under 4 Feet)

CRIMSON BEDDER.—Large crimson flower, green foliage. Each, 15c; doz., \$1.50.

DAVID HARUM.—Flowers scarlet, dotted yellow, bronze foliage. Each, 15c; doz., \$1.50.

MAD CROZY.—Scarlet flowers, broad yellow edge, green foliage. Each, 15c; doz., \$1.50.

GOLDEN GATE.—Bright yellow, slightly splashed red, green foliage. Each, 15c; doz., \$1.50.

PORTLAND.—Large pink flowers, green foliage. The best dwarf pink. Each, 20c; doz., \$2.00.

MEDIUM SORTS (Four to Five Feet)

CHAS. HENDERSON.—Rich crimson flowers, green foliage. Popular, free blooming, strong grower. Each, 15c; doz., \$1.50.

PRESIDENT.—Extra large bright red flowers, green foliage. One of the best new sorts. Each, 20c; doz., \$2.00.

KING HUMBERT.—Orange scarlet, striped crimson, most popular bronze foliage sort. Each, 15c; doz., \$1.50.

YELLOW HUMBERT.—Bright yellow, dotted red, green foliage; splendid. Also called "Queen Helene." Each, 20c; doz., \$2.00.

MRS. ALFRED CONARD.—Very large, salmon pink blossoms, green foliage. Each, 20c; doz., \$2.00.

TALL SORTS (Five Feet and Up)

STATUE OF LIBERTY.—Large, attractive orange scarlet flowers, bronze foliage. Each, 15c; doz., \$1.50.

ALLEMANIA.—Bright scarlet, edged yellow, green foliage. Makes a fine, majestic appearance. Each, 15c; doz., \$1.50.

FLORENCE VAUGHAN.—Yellow, spotted crimson, green foliage. Each, 15c; doz., \$1.50.

WINTZER'S COLOSSAL.—Bright red. Green foliage.

Choice variety. Each, 20c; doz., \$2.00.

EUREKA.—White flowers, green foliage. Strong grower. Each, 20c; doz., \$2.00.

DAHLIAS

GOLDEN SUN.—Decorative type. Color golden yellow. Large, perfect flower. Each, 25c; 3 for 65c.

JACK ROSE.—Decorative type. Color bright red. Large, perfect flower. Each, 25c; 3 for 65c.

SYLVIA.—Decorative type. Mauve pink shading to white in center. Each, 25c; 3 for 65c.

DELICE.—Decorative type. Extra large; bright glowing rose pink. Each, 25c; 3 for 65c.

A. D. LIVONI.—Show type. Delicate shell pink; fine large flower. Each, 25c; 3 for 65c.

STORM KING.—Show type. Extra large white flowers, tinged pink center. Each, 25c; 3 for 65c.

RED HUSSAR.—Show type, brilliant cardinal red; large flower. Each, 25c; 3 for 65c.

GENESTA.—Cactus type. Rich, orange bronze color. Beautiful. Each, 30c; 3 for 75c.

DAINTY.—Cactus type, rosy pink, shading yellow. Bright and attractive. Each, 25c; 3 for 65c.

FLORADORA.—Cactus type. Deep blood red, rich, and velvety appearance. Each, 30c; 3 for 75c.



CACTUS DAHLIAS

GLADIOLUS

These are a specialty with us. Is the most desirable of all bulbs and it is claimed by many who are well acquainted with their beauty, to be the flower of flowers.

NAMED VARIETIES

AGNES WHITING.—A very fine bright yellow. A new variety of great value. Each, 10c; doz., \$1.00.

ALBANA.—A new white, large flower, pure color and prolific. Each, 10c; doz., \$1.00.

ALICE TIPLADY.—A new color—orange saffron. Beautiful and a good flower. Each, 10c; doz., \$1.00.

ANNA EBERIUS.—Beautiful shade of light purplish crimson. A general favorite. Each, 10c; doz., \$1.00.

A. W. HUNT.—Large bright red flower with faint white pencilling. Each, 10c; doz., \$1.00.

BARON HULOT.—Dark, velvety purple. It is the best blue-flowered gladiolus. Each, 12c; doz., \$1.20.

CRIMSON GLOW.—A wonderful fine red, large open flowers, long spike. Each, 10c; doz., \$1.00.

E. J. SHALER.—A deep rose pink, a lovely, ruffled flower. Bright enough to go with reds. Each, 10c; doz., \$1.00.

ELORA.—A very fine white, with touch of color. Each, 10c; doz., \$1.00.

EVELYN KIRTLAND.—Rose pink, darker at the edges, fading to shell pink at the center, with scarlet blotches on petals. Fine large spike. Each, 10c; doz., \$1.00.

GIANT NYMPH.—An extra large flower of deep solid pink. One of the best. Each, 10c; doz., \$1.00.

GLENDAL.—A bright violet or purple color. Somewhat lighter than Anna Eberius, but equally beautiful. Each, 10c; doz., \$1.00.

HERADA.—Mauve or lilac shade. New and beautiful. Large flowers. Each, 12c; doz., \$1.20.

LE MARECHAL FOCH.—Enormous flowers of beautiful delicate pink; finest of its color. A very popular variety. Each, 7c; doz., 75c.

MRS. FRANCES KING.—Great beauty. Color scarlet. Large flowers, strong spike. Each, 6c; doz., 60c.

MRS. FRANK PENDLETON.—Flowers large pink, with carmine blotches. Each, 6c; doz., 60c.

ODIN.—Dark salmon pink with ruby red blotch. Early, large flower. Each, 10c; doz., \$1.00.

REMEMBRANCE.—Combination dark and light pink shades. Large ruffled flower. Each, 12c; doz., \$1.20.

SCHWABEN.—Best of the yellows.

Large flowers on tall stock. Each, 12c; doz., \$1.20.

LILIES

Nothing can surpass the lily in beauty, purity, delicacy and stately, magnificent grandeur. Need not be disturbed from year to year. Bloom better the second year and thereafter.

AURATUM.—(Japanese Gold-Banded Lily.)—"The Queen of Lilies." Large white petals thickly spotted with crimson, and a bright golden yellow band through the center of each. Ea., 50c.

SPECIOSUM ALBUM.—Pure white lily of Japanese type, blooming in July. Each, 50c.

SPECIOSUM RUBRUM.—Height from 2 to 4 feet. Blooms in August. Flowers are white, a crimson band on each petal, with deeper colored spots between. Each, 50c.

REGAL LILY.—A new lily from China. Perfectly hardy, blooms in July. Extra large white flowers, tinged pink, with yellow throat. Each, 50c.

TIGRINUM SPLENDENS.—An improved Tiger Lily growing sometimes 6 feet high, red flowers spotted with black. Each, 35c.

DOUBLE TIGER LILY.—A double form of the old Tiger Lily. Color orange red, spotted with black. Each, 35c.

UMBELLATUM.—Blooms in June. Free flowering with clusters of large, orange red flowers on tall stems. Each 30c; doz., \$3.00.

TUBEROSE

NEW EXCELSIOR PEARL.—Very easily grown. Has short, robust stem and long spikes of large flowers, which are perfectly double. They are always wax like, pure white and unsurpassed for buttonhole bouquets. First size bulbs, each, 6c; doz., 60c.

Color Mixture

RED MIXED—Shades light to dark red; doz., 60c; 100 for \$4.00.

YELLOW MIXED—Straw yellow to orange; doz., 60c; 100 for \$4.00.

PINK MIXED—Rose, salmon and deeper shades; doz., 60c; 100 for \$4.00.

Special Mixture

Our bargain offer to close out surplus varieties. Doz., 25c; 100 for \$1.50, postpaid.



SPRAYERS

Each year proves the importance of spraying in order to destroy the insects and secure a good crop. The most successful fruit growers are the most enthusiastic on spraying. It will pay you to invest in spraying apparatus for use in the vegetable and flower garden, and for the poultry yards and houses. If spray pumps are to be sent prepaid, add postage.

HUDSON PERFECTION COMPRESSED AIR SPRAYER.

Pattern shown by illustration. It is 20 inches high and 7 1/4 inches in diameter. Capacity is four gallons but works better if not more than 3 1/2 gallons is placed in it. There is no leather or wood in the pump valve to expand and contract. It is made of extra heavy metal. Has three-piece nozzle for fine or coarse spraying and 2-foot extension rod. Shp. wt., 10 lbs. Galvanized, \$6.00; brass, \$9.00. Iowa postage, 17c.

HUDSON JUNIOR SPRAYER.—Made same style and same material as the Hudson Perfection but is smaller. Holds 2 1/2 gallons and is large enough for home garden uses. A fine individual sprayer. Galvanized tank, each, \$5.00; brass tank, ea., \$7.50. Iowa postage, 15c.

HUDSON TROMBONE SPRAYER.—A handy form of bucket pump consisting of brass pump which operates with syringe stroke. It is attached to rubber hose, which has a brass strainer attached to the bucket end. You simply drop the end of the hose in bucket and with a few strokes you can spray a tree or any other article. Useful in washing automobiles, windows or porches. Price, \$5.00. Iowa postage, 20 cents.

HUDSON
TROMBONE
SPRAYER



Brass Extension Rods

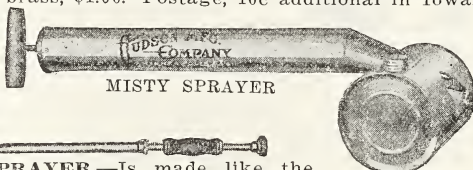
The compressed air sprayers are equipped with 2 ft. brass extension rods. Additional extensions can be supplied as follows:

2 ft., each, \$.75

3 ft., each, 1.00

4 ft., each, 1.50

IMPROVED "MISTY" SPRAYER.—Shaped like the old Faultless, but the spray nozzle protrudes through the tank, making it stronger. Mailing weight, 2 lbs. By express: tin, 50c; brass, \$1.00. Postage, 10c additional in Iowa.



MISTY SPRAYER

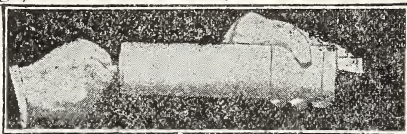
CONTINUOUS MISTY SPRAYER.—Is made like the standard Misty Sprayer, which is the most popular of this type. Made in such a way that the action of the plunger forces a continuous fine misty spray and drawing back plunger does not stop flow as in old-style sprayer. By express, tin, 75c; brass, \$1.50. Postage, 10c each to Iowa points.

THE HUDSON CADET DUSTER is adapted for use with all insect powders. Because of its size and efficiency it is a favorite with the housewife in applying roach, ant, and various bug powders. It is frequently used around restaurants, soda fountains, offices, stores, etc. Length over all 15 1/4 inches. Diameter of barrel 1 1/4 inches. Each, 60c. Postage, 10c.



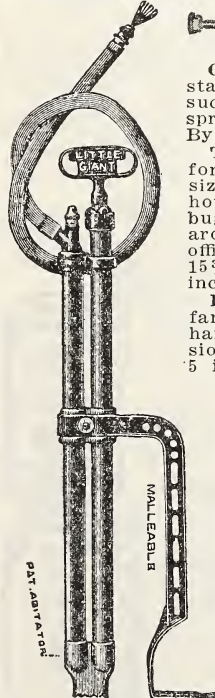
HUDSON MAJOR DUSTER is for the home gardener, the small truck farmer or fruit grower, for use in and around the home, dairy, etc. It will handle all dry powdered insecticides. Length over all 28 inches. Extension 12 inches. Stroke of pump 8 inches. Length of powder receptacle 5 inches. Diameter of barrel 2 3/4 inches. Fitted with powder strainer and nozzle. Each, \$1.00. Postage, 15c to Iowa Points.

FEENEY DUSTERS.—A dust blow sprayer most useful in applying all powdered insecticides. Strong and well made. A Feeney Duster with a few pounds of insecticides will insure you protection against insect ravages among flowers and gardens. Each, \$1.25. Postage, 15c to Iowa points.



HUDSON MAHAWK SPRAY PUMP is popular for whitewash, water paints, insecticides, disinfectants, stock dips, etc. High pressure and uniform discharge adapt it for orchard or garden, washing automobiles, wagons and windows. Working parts are brass. Valves are bronze balls; will not rust or corrode. Handle and foot rest are malleable and unbreakable. Furnished with 3 feet of 3/4-in. 5-ply special hose, a 12-inch iron extension rod and Fog Nozzle adjustable from the finest mist to a solid stream. Priced by express, \$4. Postage, 15 cents.

HUDSON BARREL SPRAY PUMP.—A heavy brass cylinder barrel pump for use in orchards and vineyards. It clamps onto the barrel so that it is rigid. The barrel can be set in a wagon or on a drag. It is equipped with 6 ft. of hose, 4-ft. extension rod, a graduated nozzle for either coarse or fine spray. Practically unbreakable. Each, \$14.00.



MAHAWK PUMP

EVERY HOUSEHOLD SHOULD HAVE A SPRAYER TO DESTROY INSECTS AND VERMIN

SPRAY MATERIALS



Poisons are not mailable. All items on this page go at customer's expense unless quoted postpaid.

It is vitally important to conserve and protect fruit and vegetables from insect pests. Spraying is the best method to combat the insects and diseases and present methods of manufacture have given us insecticides in most condensed form, and in

formulas ready for instant use for any purpose. There has been developed a line of insecticides in dry powder form, convenient to handle and to keep until used. There is no danger of freezing or loss through leakage, and cost of transportation is reduced to lowest.

PARIS GREEN.—Paris Green has by years of use proven its quality. It is one of the most effective insecticides. Price: $\frac{1}{4}$ lb., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 45c; 2 lbs., 80c.

DRY LIME-SULFUR.

The use and success of Lime-Sulfur solution is known to practically every fruit grower in the country. Sherwin-Williams Dry Lime-Sulfur is true lime-sulfur solution in dry powder form—the first and only one of its kind on the market. It has all the advantages of the liquid material, but eliminates the disadvantage. Protected by patent. Price: 1 lb., 35c; 5 lbs.,

\$1.25; 10 lbs., \$2.00; 25 lbs., \$4.50.

FUNGI-BORDO.—Dry powdered Fungi-Bordo is a true Bordeaux mixture in dry powdered form, requiring only to be mixed with cold water to make a standard Bordeaux. Directions on package. Price: 1 lb., 45c; 4 lbs., \$1.25.

PESTROY.—Pestroy is a combination Bordeaux mixture and arsenate of lead to save the time and trouble of making up and combining Bordeaux solution and the arsenate of lead mixture. Price: $\frac{1}{2}$ lb., 25c; 1 lb., 50c; 4 lbs., \$1.50.

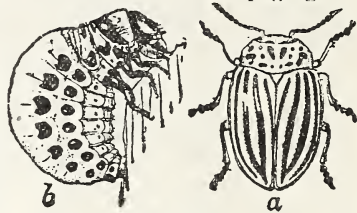
DRY POWDERED ARSENATE OF LEAD.

—Because of its unusual lightness, stays thoroughly in suspension, giving the spray uniform strength. It contains from 30 to 33 per cent arsenic oxide. It clings to the foliage for the longest possible time, which means effective control of insects. Price: $\frac{1}{2}$ lb., 25c; 1 lb., 45c; 4 lbs., \$1.00; 20 lbs., \$4.00.

HAMMOND'S SLUG SHOT.—A combination of potent insecticides and soluble plant food. It destroys all insects injurious to shrubs, trees and plants. Poisonous to insects, but not to foliage. 1 lb., 25c; 5 lbs., 75c; 10 lbs., \$1.40; 100 lbs., \$13.00.

SLUG SHOT DUSTERS.—Buckets with perforated bottom used to apply powder insecticides. Very convenient and quick, as it only needs a shake to protect a plant. Every grower of potatoes, cucumbers, melons or garden vegetables will find it a time-saver. Each, 50c, postpaid.

CARBOLA.—A powder insecticide and germicide which can be dissolved and used like whitewash or sprayed on walls of poultry houses, cow barns, basements or wherever a need arises. It affords freedom from insects and prevents mold or impure air. Not poisonous and can go by mail. Price, 5-lb. pkg., 75c; 10 lbs., \$1.25. Postage in Iowa, 5-lb. pkg., 12 cts; 10-lb. pkg., 17 cts.



BLACK LEAF 40.—This is about 40 per cent Nicotine. Very powerful and one gallon will make from eight hundred to one thousand gallons of spray. For outdoor uses and house plants indoors. Price: 1 oz. can, 35c; $\frac{1}{2}$ lb., \$1.35.

EVERGREEN.—A non-poisonous insecticide specially recommended to destroy cutworms, melon beetles, cabbage, currant and gooseberry worms, plant lice and garden insects generally. Harmless to humans, animals and birds. 1 $\frac{1}{2}$ oz. bottle (makes 9 gallons spray), 35c; 6 oz. bottle, \$1.00; 16 oz. bottle, \$2.00.

NIAGARA ALL-IN-ONE

DUST.—Contains arsenic to kill chewing insects, nicotine to kill sucking insects and Bordeaux to destroy scale or fungus growth. A complete all-purpose dust spray. Per lb., 65c; 5 lbs., \$2.25.

NIAGARA POMOGREEN.—A dusting powder to destroy mildew, black spot and other diseases of roses. Does not discolor or injure foliage. Useful for any kind of plant disease anywhere. Per lb., 50c.

FUMIGATING AND DUSTING POWDER.

—Formerly sold under the name of Tobacco Dust. A valuable item for flower gardens and for truck growers. Destroys melon and cucumber bugs. By express, lb., 15c; 5 lbs., 25c; 100 lbs., \$4.00; 500 lbs., \$17.50.

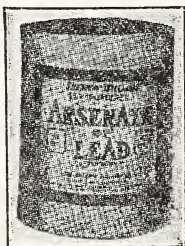
PYRETHRUM INSECT POWDER.—Best grade. Fresh and nice. It does not pay to use cheap, ordinary grades. Splendid for home use to kill cockroaches, ants and flies. By express, $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00.

ACME ALL ROUND SPRAY.

—The latest improvement in the insecticide field; one product which will combat blight and fungus diseases, control sucking insects and destroy chewing insects in one application. Safe to use on almost all fruits, vegetables, flowers and shrubs. Write for descriptive circular. Prices: $\frac{1}{4}$ lb., 45c; 1 lb., 95c.

ACME SPRAY SOAP.—A (fish oil) soap effective in destroying many sucking insects and lice on plants, trees, ferns, etc. Also used extensively with cylinder oils in making oil emulsions to reduce the surface tension. Price: 1 lb., 40c; 5 lbs., \$1.50.

HELLEBORE.—A well-known powder which is perhaps the best for use on currants and gooseberries to prevent the ravages of worms without danger of poisoning the fruits. Per $\frac{1}{2}$ lb., 40c, postpaid.



YOU CANNOT PROTECT YOUR CROP WITHOUT INSECTICIDES OF SOME KIND

TOOLS and IMPLEMENTS

Send for Planet Jr. complete catalogue; mailed free.

PLANET JR. NO. 4 COMBINED SEEDER AND CULTIVATOR.—This tool combines in a single implement, a first-class hill-dropping seeder, a perfect drill sower, a single wheel hoe, a cultivator, and a plow. It holds two quarts and sows in continuous rows, or drops in hills 4, 6, 8, 12 or 24 inches apart. The index is accurate, simple and easily set. The drill is detachable and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe. Price, \$18.00.

PLANET JR. NO. 4 SEEDER AND CULTIVATOR

No. 4-D (As a Seeder only), \$14.25.

NO. 25 COMBINED SEEDER, DOUBLE AND SINGLE WHEEL HOE.—As a seeder this tool is the same as No. 4 described above, but when used as a cultivator it can be set up either as a double or single wheel hoe. Has steel frames and straddles crops until 20 inches high. Two acres a day can easily be worked, and when it is done, it will be a better job than several men could have done in the same time with hand hoes. The most complete of the interchangeable tools. Price, \$21.50.

PLANET JR. NO. 25 HILL AND DRILL SEEDER

PLANET JR. NO. 17 SINGLE WHEEL HOE.—Has one pair of hoes, three cultivator teeth, and a plow. This is just the right assortment of tools for a family garden and should be very popular. If desired, the rakes and other attachments can be added to make a complete tool. Price, \$7.75.

PLANET JR. NO. 17 SINGLE WHEEL HOE

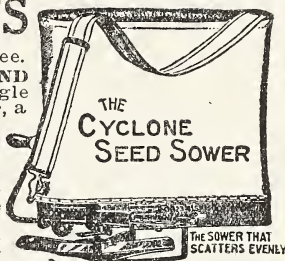
PLANET JR. NO. 12 DOUBLE WHEEL HOE.—A double and single wheel hoe in one. Has steel frames. 14-inch steel wheel with heavy steel spokes and straddles crops until 20 inches high. Then can be worked between rows with one or two wheels. Does the work of six men with ordinary hand hoes. The attachments will all be found useful from the beginning to the end of the season. Price, \$10.75.

PLANET JR. NO. 12 DOUBLE WHEEL HOE

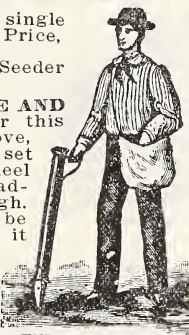
PLANET JR. NO. 8 COMBINED HORSE HOE AND CULTIVATOR.—Opens and closes furrows, right up to the plants without danger of injury. Price, \$17.50.

PLANET JR. NO. 90 TWELVE TOOTH HARROW AND PULVERIZER.—Price, \$12.50. No. 90-B (less pulverizer) \$10.00. The chisel-shaped teeth go deep or shallow as you like.

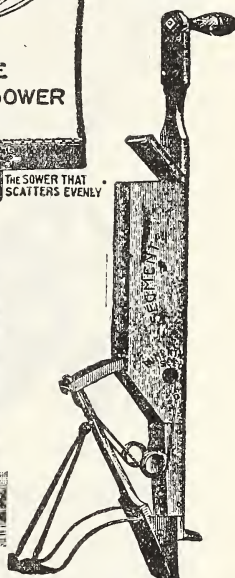
PLANET JR. MOTOR CULTIVATOR.—The Planet Jr. factory after many years of study and trials have perfected a motor cultivator and we offer it because of 40 years' experience with Planet Jr. tools, and we know this company puts nothing on the market that is not right. Will send you special catalogue about the motor tractor on request. Price, 2-horse-power motor, \$329.50, f. o. b. factory. Price, 1-horse-power motor, \$262.50, f. o. b. factory.



SEGMENT CORN PLANTER



EUREKA POTATO PLANTER

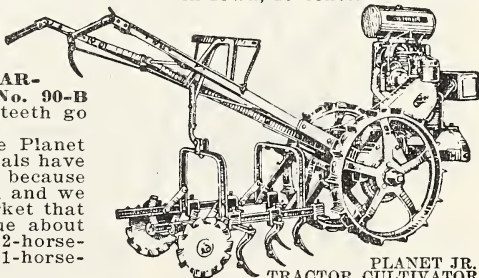


CYCLONE SEED SOWER.

—Farmers should have a small hand seed sower for emergency use. This is an improved style, strong, well made, durable, very easy to understand and easy to operate. Directions with each machine. By express, \$2.25. Postage in Iowa 10 cents.

SEGMENT HAND CORN PLANTER.—Operated with one hand. Immense amount of ground can be planted in one day. Drops as fast as you walk, and you make it drop where you want. Open drop by bending planter forward, thus pressing spring which controls hopper opening. Also plants from your pocket, beans and pumpkin seeds with corn through an opening in the side. Price, each, by express, \$2.25. Postage in Iowa, 10 cents.

EUREKA POTATO PLANTER.—The best hand potato planter that we know of as it does the work perfectly. Also plants beans and corn equal to any corn planter. Price, \$2.00. Postage in Iowa, 10 cents.



PLANET JR. TRACTOR CULTIVATOR

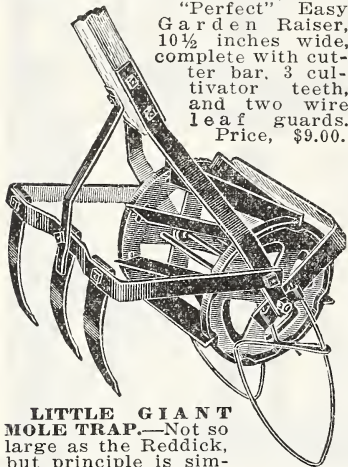
A PLANET JR. TOOL WILL PROVE PROFITABLE IN A SMALL HOME GARDEN

Easy Garden Raiser

Revolving cylinder with knives like a lawn mower, followed by cultivator to stir the soil.

"Standard" Easy Garden Raiser, 8½ in. wide, complete with cutter bar, 3 cultivator teeth, and 2 wire leaf guards. Price, \$8.50.

"Perfect" Easy Garden Raiser, 10½ inches wide, complete with cutter bar, 3 cultivator teeth, and two wire leaf guards. Price, \$9.00.



LITTLE GIANT MOLE TRAP.

—Not so large as the Reddick, but principle is similar. Strong, durable and will do the work. Easily set. Has a strong spring with great force. Each, \$1.50, postpaid in Iowa.

GARDEN WEEDER.—All steel, one piece. Has fine steel fingers with ground and polished points. Durable and useful among small plants or flower beds. Each 25c. Postage in Iowa, 7 cents.

GARDEN TROWEL.—An all steel, one-piece garden trowel, strong and heavy. Finished with baked enamel blade 6 inches long. Each, 25c. Postage, 7 cents in Iowa.

TRANSPLANTING TROWEL.—All steel, one piece, blade six inches long, but narrower than the common type. Finished with baked enamel. A splendid trowel. Each, 25c. Postage 7 cents in Iowa.

THREE-PIECE GARDEN SET.

—Consists of one each of the above tools. One trowel, one transplanting trowel and one trap weeder. An assortment which will be found very useful for any gardener. Price 75 cents, postpaid to Iowa points.

HUDSON GARDEN PLOW NO. 240.—A fine tool for the town gardener, who has only a small plot. Illustration shows the attachments, a cultivating rake, a plow, and a hoe, all made of best steel. You can do all your work but sowing the seed with this tool. The wheel is 1¼-inch tire and 24 inches in diameter, which makes it easy to run. We have chosen this as the best among a number of styles of high-wheel garden plows at a low price. Cannot mail. Customer pays cost of transportation. Each, \$4.50.



HUDSON GARDEN PLOW

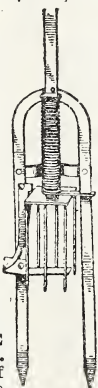
Cel-O-Glass

Will take the place of glass in hotbed sash, garage and barn windows, storm doors, and many other purposes, at a great saving. Unbreakable and very light in weight. No glazing. Hammer and tacks are the only tools you need. Put up in rolls 3 feet wide up to 100 feet long. Price per square yard, \$1.65; 10 yards for \$16.00.

GLASS CLOTH.—Heavy canvas cloth, treated to admit the violet rays of the sun. Used for covering hotbeds, cold frames in place of glass, windows in poultry houses. Makes a good winter storm covering over windows and screen doors. We offer the genuine glass cloth. Sold in strips three feet wide, cut to any length desired. Price per yard length, 45c; 15 yards for \$5.25.

DANDELION WEEDER.—Made of one piece hard, stiff steel. Blade is 8 inches long, with ground notched point, which cut the dandelion root and holds the plant in the notch. Works much faster than common knife. Each 30 cents, postpaid in Iowa.

EXCELSIOR WEEDING HOOK.—Can be used to great advantage among small, tender plants. Price, by parcel post, each, 25c; doz., \$2.50; by express, each, 20c; doz., \$2.



LITTLE GIANT MOLE TRAP

CONCAVED AND CURVED SEED POTATO KNIFE.

—Thin and right shape to cut one, two or three eye pieces fast and not crack tuber nor injure germ. Far superior to the ordinary straight blade knives for this purpose. Each, by parcel post, 25c.



CONCAVED AND CURVED POTATO KNIFE

BLUE GRASS STRIPPERS.—For gathering blue grass seed by hand. Each, by express, \$2.50. Postage 10 cents in Iowa.

IMPROVED HAND PRUNING SHEARS.—The best hand shears on the market. Made specially for pruning berry or rose bushes, grape vines, etc. Made of best steel, 8 inches long, straight spring (can't lose out). Price, \$1.75. Postage 10 cents in Iowa.

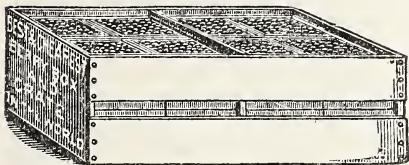
CONNECTICUT PRUNING SHEARS.—A good tool for most work. Steel blades, spring and malleable handles. Price \$1.00. Postage 10 cents in Iowa.

LANG'S HAND WEEDER
HANDIEST TOOL ON EARTH.



LANG'S HAND WEEDER.—Is in our opinion the best; its special feature, a band which passes over the fingers, which, when the tool is not in use, gives full use of the hand for pulling weeds and thinning out plants without laying it down. Price, 30c postpaid.





BERRY BOXES.—Shipped flat. Made of the best white wood (spruce), heart stock, cut smoothly, and perfect shape, size $4\frac{1}{2} \times 3\frac{3}{4}$, to hold a dry measure quart. The bottom is set up for ventilation. Price per 100 75c, 1,000 \$7.00. Weight, 15 lbs. per 100.

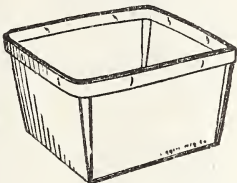
AMERICAN QUARTS.—Made up small square baskets holding one dry quart. Sold in made up crates containing 24 boxes. Price for one crate and 24 boxes 60c. Boxes alone, 500 for \$5.00. Crates each 30 cents.

AMERICAN PINTS.—For red raspberries and soft fruits. Like the quart pattern but smaller. Same prices.

CRATES.—Ventilated at sides and bottom, with a tight cover to protect from dust. We ship in the flat or "knock down." They make a neat, strong package holding 24 quart or 24 pint boxes. Price: 24-qt. crates, per 10, \$3.00; per 100, \$27.50. Weight, each 5 lbs.

MAGNETIC TACK HAMMER.—Picks up the tacks and saves much of the labor in making up berry boxes. Each, 25c. Postpaid to Iowa points.

ANNEALED TACKS.—Made of very best iron and of proper length so to go through either two or three thicknesses of material and clinch to hold securely. A pound will make 1,000 boxes. Lb., 45c; 3 lbs., \$1.35.



FRUIT PACKAGES

Write for quantity prices of Berry Boxes.

We are prepared to furnish you the best stock made, at low prices. It pays to have bright stock which will make the fruit look nicer and sell better. Prices named here are subject to change during season. All goods in this department go at customer's expense for carriage. If wanted by mail Iowa customers will add 5c per lb. from weights given for each item and send postage necessary.

CRATE NAILS.—Far superior to common nails, as they hold much better. Ten pounds (makes 100 crates) \$1.00.

STAPLING WIRE.—To use with a stapling machine for making boxes. Per coil of 12 lbs., \$2.00; 5 coils, \$8.75.

NURSERYMEN'S SUPPLIES

(For Hand Pruning Shears see page 54.)

GRAFTING WAX.—A special preparation to apply where trees have been pruned; to prevent loss of sap from wounds in bark or from broken limbs and to hold grafts together. Price, $\frac{1}{2}$ lb. pkg., 25c, postpaid.

PRUNING COMPOUND.—Protects the wounds made in pruning, preventing the entrance of moisture, and due to its antiseptic qualities, it prevents development of fungus diseases. Price, per qt., 75c; gal., \$2.50.

TREE PRUNER.—Strong wooden handles 24 inches long; $1\frac{1}{2}$ inch cut; powerful and effective. The best where branches are within reach. Each, \$2.25. Postpaid in Iowa.

WATER'S TREE PRUNER.—The standard make; with 6 ft. pole, \$2.00; 8-ft. pole, \$2.35; 10-ft. pole, \$2.75. Can't mail.

TREE LABELS.— $\frac{3}{4}$ inch, plain, copper wire. Per 100, 45c; per 1,000, \$3.75. Not wired, per 100, 30c; per 1,000, \$2.40. Postpaid.

POT LABELS.—Smooth wood labels, 4-in. per 100, 30c; per 1,000, \$2.40; 6-in. per 100, 45c; 1,000, \$3.75; 10-in. per 100, \$1.00; per 1,000, \$9.00. Postpaid to Iowa points.

GARDEN MARKERS.—Smooth, soft wood. 8-in., per 100, \$1.00; 10-in., per 100, \$1.50; 12-in., per 100, \$2.00. Postpaid to Iowa points.

WINDOW GARDEN SUPPLIES

THRIFTY PLANT BARGAIN

One package Stim-u-plant (No. 2 size) and one 8-oz.

Cake Sulpho Tobacco Soap, both items mailed postpaid anywhere for only 50c.

FLOWER POTS.—The following prices per dozen are for pots and saucers; 4-in., 75c; 5-in., \$1.50; 6-in., \$2.10; 7-in., \$3.00; 8-in., \$5.00; 9-in., \$6.50. We make no charge for packing and delivering at depot here. Orders for these must amount to at least \$1.00.

PAPER FLOWER POTS.—Made

of heavy, strong waterproof paper. Fine for growing vegetable plants, pansies, asters, etc. You need not disturb roots of plants when setting in the open. $2\frac{1}{4}$ in., by express, doz., 10c; 100 for 65c; 1,000 for \$5.00; 3-in., doz., 15c; 100 for \$1.00; 1,000 for \$8.00; 4-in., doz., 25c; 100 for \$1.50; 1,000 for \$11.00. Postage 10c per 100.

WIRE HANGING BASKETS.—Are made of wire; lined with moss and filled with dirt they are very attractive. Light, strong and durable, and have chain attached. By express, 8-in., with enough moss to line it, each 40c, 10-in., each 50c; 12-in., each 60c. If to go by mail add postage 10 cts.

WIRE POT BRACKET.

—An attractive pattern as shown, made of tinned wire. Easily put up and swings right and left. Accommodates pots up to 5-inch diameter. Each, 25c; doz., \$2.50; postpaid.

SULPHO-TOBACCO SOAP.—For a cheap, effective, clean and harmless insecticide. Quickly exterminates all insect life on plants and flowers. Unsurpassed for rose bushes. It rids the house of cockroaches. Prevents poultry lice. Three-ounce cake for $1\frac{1}{2}$ gals. solution, postpaid, 15c; 8-oz. cake, for 4 gals., postpaid, 30c. Six 8-oz. cakes, postpaid, \$1.50.

STIM-U-PLANT

Concentrated food for plants in small tablets to be used as needed. No. 1 pkg. (10 tablets), each 20c; No. 2 pkg. (30 tablets) each 35c; No. 3 pkg. (100 tablets) each 75c. Postpaid at prices named.



WIRE HANGING BASKET



WIRE BRACKET

ALL WHO KEEP HOUSE PLANTS SHOULD BUY OUR THRIFTY PLANT BARGAIN

Poultry Supplies



PLYMOUTH ROCK HEN FOOD.—This is a scratch food for poultry, which can be fed to all fowls over one month old. It is made from clean, sound grain and contains cracked corn, buckwheat, barley, wheat, sunflower, kaffir corn and milo maize in proper proportions for a complete ration. It does not contain grit of any kind. We have special machinery for preparing this hen food. The cracked corn is screened to take out the meal, and the ingredients are thoroughly mixed. It does not carry any trash, dirt or filler, and fowls will eat every grain. Analysis shows: $9\frac{1}{2}\%$ protein, $3\frac{1}{4}\%$ fat, $2\frac{1}{2}\%$ fibre. Absolutely the best food we can make. Price, not prepaid, 7 lbs. 25c, 15 lbs. 50c. See Farm Seed List for quantity price.

PLYMOUTH ROCK EGG MASH.—Prepared after a formula by the Ames Agricultural college as a special mash feed for laying hens. Especially desirable for winter feeding, since it contains meat scraps and alfalfa meal. In addition to meat scraps and alfalfa, it contains wheat bran and middlings, ground oats, kaffir meal and corn meal, with a dash of salt. A complete ration. Analysis of Plymouth Rock Egg Mash shows 15% protein, 8% fibre and 6% fat, a wonderful food value considering its cost. It is to feed dry in hoppers or boxes. Price, not prepaid, 7 lbs. 25c, 14 lbs. 50c. See Farm Seed List for quantity price.

PLYMOUTH ROCK CHICK FOOD.—The Plymouth Rock Chick Food is a granulated grain feed for very small chicks, and is used from the time the chicks are hatched until they are large enough to feed Plymouth Rock Hen Food. All the grains used are cracked fine and well screened to remove all the meal, and only the granulated particles are used. The same ingredients are used as are used in the Plymouth Rock Hen Food, except that the buckwheat, barley and sunflower are omitted, while millet is added. Feed with Plymouth Rock Buttermilk Food. Price, not prepaid, 6 lbs. 25c, 13 lbs. 50c. See Farm Seed List.

PLYMOUTH ROCK BUTTERMILK FOOD.—A wonderful food for young chicks and growing fowls. Our own formula containing oat flour, brown shorts, linseed meal and dried buttermilk. It is to be fed in dry hoppers or boxes, and in connection with our Plymouth Rock Chick Food you will be astonished at the thrift and growth of chicks so fed. Cracked corn and Plymouth Rock Buttermilk Food is a splendid ration for finishing poultry for market. Analysis shows 15% protein, 4% fat and 7% fibre, a low cost food at the price, measured by results. Price, not prepaid, 4 lbs. 25c, 10 lbs. 50c. See Farm Seed List.

RAW BONE MEAL.—Ground fine for feeding small chickens; also used as a lawn fertilizer. Price, 10 lbs. 75c, 25 lbs. \$1.50. See Farm Seed List for quantity price.

A good laying hen consumes about 100 pounds of feed per year. Suggested daily ration for laying hens as follows: 2 oz. P. R. Hen Food, 2 oz. P. R. Egg Mash, 2 oz. Sprouted Oats or other green feed. Oyster shell, grit and charcoal with fresh water at all times.

ALFALFA CLOVER MEAL.—An excellent preparation of alfalfa containing a large amount of digestible protein, especially adapted to be fed with a mash food. Valuable as a winter food. Price, 10 lbs. 50c, 25 lbs. \$1.00. See Farm Seed List for quantity price.

GROUND MEAT SCRAPS.—Fresh beef thoroughly cooked and dried; excellent food for young chicks or laying hens. 15 lbs. \$1.00, 30 lbs. \$2.00. See Farm Seed List for quantity price.

CRUSHED RAW BONE.—Really better than clam shell, but will pay to use both. Best quality, made from fresh bones. 10 lbs. 75c, 25 lbs. \$1.75. See Farm Seed List for quantity price.

CRUSHED CLAM SHELL.—Harder than oyster shell, and not dissolving so readily, will serve as grit; contains a large amount of available lime necessary in egg production. Price, 25 lbs. 50c. See Farm Seed List for quantity price.

CRUSHED OYSTER SHELL.—A most important article for the poultry yard and should be supplied liberally. Superior quality. Hens will keep healthier, lay better, and eggs will be more fertile if supplied with it. 10 lbs. 30c, 25 lbs. 50c. See Farm Seed List for quantity price.

CRISCO POULTRY GRIT.—Well known grit from the South. Harder, sharper and superior in every way to ordinary kinds. It goes further. Both fine and coarse sizes for fowls and chicks. Per 100 lbs. \$1.75. See Farm Seed List for quantity price.

CHARCOAL.—Granulated to just the right sizes for either poultry or chicks. The larger size is suitable for feeding hogs. Two sizes, 4 lbs. 25c, 10 lbs. 65c, 25 lbs. \$1.50, 50 lb. bag, \$3.50.

MEDICINAL FOODS

Directions for use are plainly printed on all packages listed below.

DR. HESS PANAMIN.—Formerly called Pan-a-cea. A splendid medicinal food to feed with mashes. Keeps fowls healthy and promotes egg production in hens. Price, 3 lbs. 50c; 7 lbs. \$1.00 25 lb. pail, \$3.00.

PRATT'S POULTRY REGULATOR.—A standard medicinal food for many years. We recommend it for mixing with mash feeds. Price, $3\frac{1}{2}$ lbs., 50c; 12 lbs., \$1.50; 25 lb. pails, \$3.00.

CONKEY'S POULTRY TONIC.—A concentrated medicinal tonic food. Promotes health and increases egg production. Mix in mashes or with ground feeds. Price, $3\frac{1}{2}$ lbs., 50c; 7 lbs., \$1.00.

CONKEY'S Y-O.—Contains yeast and cod-liver oil to supply vitamins for building vigor, and quicken growth and maturity. Helps hens to lay more eggs. Mix with any mash. Price, 1 lb., 55c; 2 lbs., \$1; 5 lbs., \$2.25.

LEE'S EGG MAKER.—A preparation to promote egg production. It actually does the work. To be fed in mashes. Price, 2 lbs., 30c; 6 lbs., 90c.

DR. HESS STOCK TONIC.—An excellent tonic food for all kinds of live stock. Because it promotes health it quickens growth in young stock, and increases usefulness in mature animals. Price, 5 lbs., 75c; 15 lbs., \$2.00; 25 lbs., \$3.00.

PRATT'S ANIMAL REGULATOR.—A standard stock tonic which we have sold with satisfaction for many years. The Pratt line of remedies is given a place in our stock because of merit. Price, 3 lbs., 50c; 7 lbs., \$1.00.

DON SUNG.—A highly concentrated tonic for laying hens. The name is the Chinese equivalent for "egg laying," and has been used in China for many years to promote egg production. Price (two sizes), 50c and \$1.00.

OUR PLYMOUTH ROCK POULTRY FOODS ARE FROM CLEAN, SOUND GRAINS ONLY

REMEDIES—SPECIALTIES

To care for the various needs of the poultry raiser, and to offer a wide choice, we carry a very complete line of these goods from the best known manufacturers. We have the most complete stock in the West and you can find your favorite item for any need in this list. Prices quoted are not prepaid, except as noted.

In sending postage for items which you want to come by parcel post be sure to add 1 lb. to stated weight of package goods. Postage rate to Iowa points is 7 cents for first pound and 1 cent for each additional pound.

REMEDIES FOR DISEASE

	Price	Post-paid
Lee's Germazone, liquid...	\$.75	\$.85
Lee's Germazone, liquid...	1.50	1.75
Lee's Germazone, tablets...	.65	.75
Conkey's Pills .....	.25	.30
Conkey's Pills .....	.50	.60
Conkey's Reliable Powder...	.25	.30
Conkey's Reliable Powder...	.50	.60
Conkey's Reliable Powder...	1.00	1.10
Pratt's Roup Tablets.....	.25	.30
Pratt's Roup Powder.....	.25	.30
Pratt's White Diarrhea.....	.25	.30
Pratt's White Diarrhea.....	.50	.60
Dr. Hess Roup Powder.....	.25	.30
Dr. Hess Roup Powder.....	.50	.60
Conkey's Cholera Powder...	.50	.60
Conkey's Diatex .....	.50	.60
Conkey's Diatex .....	.25	.30
Dr. Hess Poultry Tablets...	.50	.60
Dr. Hess Poultry Tablets...	1.00	1.15
Dr. Hess Chick Tablets....	.50	.60
Dr. Hess Chick Tablets....	1.00	1.15
Head Lice Ointment.....	.25	.30
Conkey's Scaly Leg Remedy...	.25	.30
Conkey's Worm Remedy.....	.25	.30
Dr. Hess Vermitrol, 4 lbs...	1.25	1.35
Barnes' Worm Emulsion....	.60	.70
Barnes' Worm Emulsion....	1.00	1.25
Lee's Pty. Wormer (12 oz.)	1.00	1.10
Lee's Pty. Wormer (32 oz.)	2.00	2.10

LOUSE POWDERS.

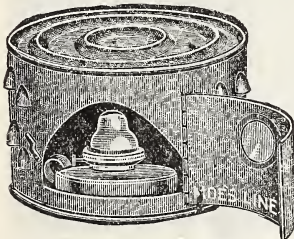
Add postage if wanted by mail.

Lee's Louse Powder.....	1 lb.	\$.25
Lee's Louse Powder.....	2½ lbs.	.50
Conkey's Lice Powder.....	1¼ lbs.	.35
Conkey's Lice Powder.....	3 lbs.	.75
Dr. Hess Louse Killer.....	1 lb.	.25
Dr. Hess Louse Killer.....	2½ lbs.	.50
Sodium Fluoride	½ lb.	.25
Sodium Fluoride	1 lb.	.50

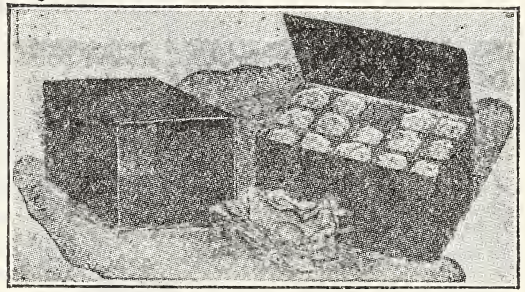
LIQUID LICE KILLER.

By Express Only; Cannot Be Mailed.

Conkey's Lice Liquid.....	1 qt.	\$.60
Conkey's Lice Liquid.....	2 qts.	.90
Conkey's Lice Liquid.....	4 qts.	1.50
Conkey's Noxicide	1 pt.	.50
Conkey's Noxicide	4 qt.	.80
Lee's Lice Killer.....	1 qt.	.60
Lee's Lice Killer.....	2 qts.	.90
Lee's Lice Killer.....	4 qts.	1.50
Humane Lice Killer.....	1 qt.	.60
Humane Lice Killer.....	2 qts.	.90
Humane Lice Killer.....	4 qts.	1.50
Humane Fly Spray.....	1 qt.	.60
Humane Fly Spray.....	2 qts.	.90
Humane Fly Spray.....	4 qts.	1.50



FOUNTAIN HEATER

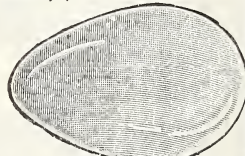


CORRUGATED EGG CASE.—Like picture but shipped in flat, saving freight or express charges. We recommend them for shipping eggs for hatching as they carry safely. Price, 15-egg size \$2.10 per doz.; 30-egg \$3.00 per doz.; 50-egg \$4.00 per doz.; 100-egg \$6.00 per doz. Mailing weight, 15-egg size, 1 lb.; 30-egg size, 2 lbs.; 50-egg, 3 lbs. each.

LIVE CHICK BOX.—Made from corrugated paper with ventilating holes in top and sides; for shipping small, live chicks. 25-chick size, \$1.65 per doz.; 50-chick size, \$2.25 per doz.; 100-chick size, \$3.50 per doz. Mailing weight, 25 size, 2 lbs.; 50 size, 4 lbs.; 100 size, 6 lbs.

MOE'S OAT SPROUTER.—Made entirely of metal. Sprouter has six heavy galvanized iron pans.

Five of the pans have perforated bottoms for drainage, and bottom pan is solid to hold drippings. Pan's are interchangeable. Can be taken apart and stored in a small space. Total height of frame 3 ft. Size of pans 16 in. by 18 in. Packed knocked down 1 in a crate. Shipping weight 30 lbs. Price, each, \$6.00.



NEST EGGS

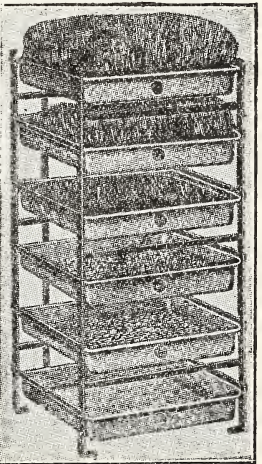
PORECLAIN NEST EGGS.—Doz. 50c; 100 for \$3.00 postpaid.

LICE REPELING NEST EGGS.—A white, sanitary, lice repelling nest egg of superior quality. Aids in keeping the nest and hen free from vermin. Doz., 75c; 100 for \$6.00 postpaid.

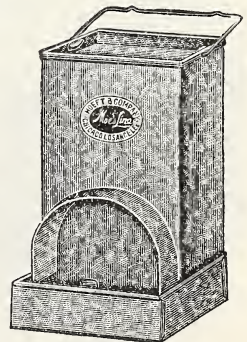
EGG CARTONS.—Made of pasteboard for local delivery. Hold one dozen. 25 for 30 cents; or postpaid for 38 cents. 125 for \$1.25 or postpaid for \$1.50.

MOE'S DROP BOTTOM FOUNTAIN.—Turn upside down to fill. Easy to clean. Wire handle makes it easy to carry and to hang on a wall if wanted. No. 41—Capacity 1 gallon, \$1.00. No. 42—Capacity 2 gallons, \$1.25. Add 15c for postage in Iowa.

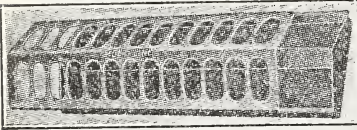
MOE'S FOUNTAIN AND BROODER HEATER.—Illustration shows style. Height 7 inches, diameter 11 inches. Complete with lamp bowl, burner and wick. Lamp bowl holds enough oil for seven days. Price each \$2.00. Add 15c for postage in Iowa.



MOE'S OAT SPROUTER



DROP BOTTOM FOUNTAIN



MOE'S DOUBLE FEED TROUGH.—Holds mash on one side, feed or water on the other. Sliding top makes it easy to fill or clean. See cut. 12-in., each 35c; 18-in., each 50c; 24-in., each 60c. Postage in Iowa, 12 in., 10c; 18 in., 10c; 24 in., 15c.

MOE'S CAPACITY FEEDER.—No. 140.—Capacity 10 quarts, length 21 inches, width 8½ inches, height 7 inches, weight 4 lbs. Price, \$1.30 or \$1.40 postpaid to Iowa points.

EXTRA HOPPER.—Fits on top of No. 140 feeder and adds 5 quarts capacity. Price 60 cents or 70 cents, postpaid to Iowa points.

MOE'S CAPACITY FEEDER.—No. 141.—Larger than No. 140. Capacity 17 quarts, length 35 inches, width 8½ inches, height 7 inches, weight 8 lbs. Price \$1.90 or \$2.00 postpaid to Iowa points.

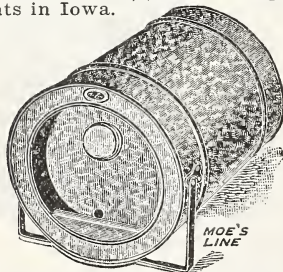
EXTRA HOPPER.—Fits on top of capacity feeder and gives room for 9 quarts additional feed. Price each 85c or 90c postpaid in Iowa.

MOE'S TOP FILL FOUNTAIN.—Won't slop over. Dead air space keeps water cool in summer, warm in winter. Simple in construction. Remove cover and fill from top. Water ceases to flow when cover is removed. By exp., 1-gal., \$1.60; 2-gal., \$2.30; 4-gal., \$2.85. Postage in Iowa, 1 gal., 10c; 2 gal., 15c; 5 gal., 20c.

MOE'S GRIT AND SHELL BOX.—Has three compartments for grit, shell and charcoal; galvanized iron. Can be used as feed hopper for small chicks; ½ pk., by express 85c. Postage in Iowa 15c.

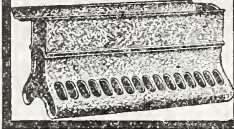
MOE'S DRY MASH HOPPER.—As shown by illustration, this hopper is devised to permit fowls access to the feed without scattering or wasting. Three sizes—No. 35, 10 qts., each \$1.60. No. 36, 14 qts., each \$1.90. No. 37, 32 qts., each \$2.75. Postage 10 cents additional to Iowa points.

MOE'S INSULATED DOUBLE WALL FOUNTAIN.—Heavy galvanized iron, double walls packed with an efficient insulating material. Large filler opening so is easily kept clean and sanitary. Keeps water warm in winter, cool in summer. Easy to fill and clean and feeds automatically. Capacity 3 gallons. Price, \$3.60. Postage 25 cents in Iowa.

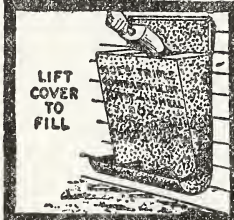


MOE'S INSULATED FOUNTAIN

REMOVE SLIDING
TOP TO FILL

140 FEEDER AND
HOPPER

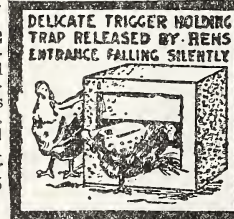
TOP FILL FOUNTAIN



GRIT AND SHELL BOX



DRY FEED HOPPER



TRAP NESTS



STAR FOUNTAIN



LITTLE PUTNAM STOVE.—The combustion is complete and perfect, doubling the heat value of the oil. The oil tank holds three pints and burns three to four weeks without refilling or any other attention. The wick never needs trimming, is 8 inches in diameter, 4 inches high, made of galvanized iron and brass. With any kind of fair usage it will last for many years. Price, \$2 each, postpaid in Iowa.

PUTNAM BROODER HEATER.—For use in homemade brooders. Burns ten days without attention. Fireproof, burns but little oil. Price, \$4.75, postpaid in Iowa.

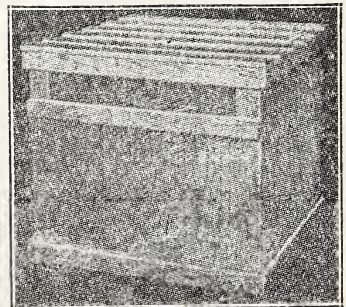
WIRE HEN'S NEST.—Strongly made of heavy wire; will last a lifetime. No room for lice to find a lodging place; easily kept clean. Each 25c, doz., \$2.80. Postage, 7c; 6-15c; 12-25c, in Iowa.

MOE'S TRAP NEST FRONTS.—Made of galvanized iron, size 11x12 inches, size of opening 8x9 inches. Can be easily fitted to wood box or coop. Automatic and door is hinged, making it easy to remove the hen or clean the nest. Price, 50c, or 60c postpaid.

STAR FOUNTAIN.—Made for Mason jar (see illustration below) but is star-shaped. Not so much water exposed, and fowls cannot pollute it while drinking. Each 15c, postpaid. By exp., doz., \$1.20.

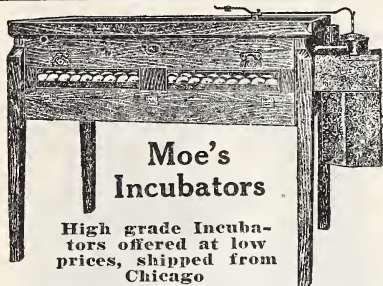
IOWA SHIPPING COOPS.—All wood. Sides and end pieces nailed together with cleats so that coops are readily made in using form. As shown by cut coops are ventilated front and back and top is covered with slats, giving thorough ventilation. Cleats around upper and lower end make it easy to handle. Prices not prepaid.

No. 1—18x12x20 in., 6 lbs., ¼ doz., \$2.00; 1 doz., \$7.20.
No. 3—20x18x20 in., 10 lbs., ¼ doz., \$2.75; 1 doz., \$10.50.
No. 5—30x20x20 in., 14 lbs., ¼ doz., \$3.25; 1 doz., \$12.00.



IOWA SHIPPING COOP

OUR LINE OF POULTRY SUPPLIES INCLUDES ONLY THE BEST AND MOST USEFUL



Moe's Incubators

High grade Incubators offered at low prices, shipped from Chicago

No. 165—Capacity 85 eggs, price \$18.
No. 167—Capacity 150 eggs; dimensions of cabinet, 17x30 in.; floor space including heater, 27x39 in.; height to top of cabinet, 34 in.; shipping weight, 120 lbs. Price each, \$22.00.

No. 168—Capacity 250 eggs; \$30.00.
Larger sizes quoted on application.
Free incubator catalogue on request.

MOE'S BROODER STOVE.—Coal burning stove with steel canopy. Fire is controlled automatically. Shipped direct from factory at prices named.

No. 112—Firepot, 10 in.; canopy, 42 in.; capacity, 500. Price, \$15.75.

No. 113—Firepot, 11 in.; canopy, 52 in.; capacity, 1,000. Price, \$21.00.

No. 114—Firepot, 13 in.; canopy, 56 in.; capacity, 1,200. Price, \$26.00.

CROWN BONE CUTTERS.—No. 1.—Weighs 50 lbs.; is to be bolted to bench or table for operation. Each, \$12.00.

No. 2.—Same as above, but cutter is fastened to tripod metal stand. Weight 80 lbs. Each, \$15.00.



POULTRY NETTING

We can supply both the hexagon mesh and also the square mesh at same price.

The best make; thoroughly galvanized before weaving, to prevent rusting, and properly twisted. Prices are subject to important market changes.

Made of No. 19 wire and 2-inch mesh; put up in rolls 150 feet in length.

Width Inches	Per Roll	Width Inches	Per Roll
12.....	\$ 2.00	36.....	\$ 5.00
18.....	3.00	48.....	7.00
24.....	3.80	60.....	8.50
30.....	4.50	72.....	10.00
One-inch mesh, No. 20 wire, for chicks.			
12.....	\$ 4.00	30.....	\$ 9.00
18.....	6.00	36.....	10.00
24.....	7.50	48.....	13.25

5 per cent discount on 5 rolls or more.
Cut rolls, any width, 2-inch mesh, 2c per sq. ft.; 1-inch mesh, 4c per sq. ft.

GALVANIZED STAPLES.—For fastening wire poultry netting, 15c per lb.



LEADER LEG BAND—No. 2

—An adjustable band which can be used for any sized fowl from a bantam to a turkey. Made of aluminum, light and smooth. Dozen 15c, 100 75c postpaid, 500 not prepaid, \$3.00.

LEADER LEG BAND—No. 1—For bantams and small breeds. Doz. 20c, 100 75c, postpaid.

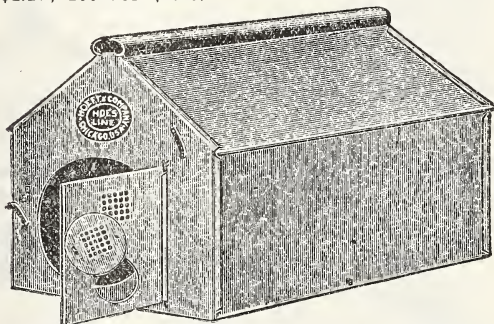
SPIRALET LEG BANDS.—Made of celluloid in six sizes and ten colors. Spread easily to put on leg of fowl. Have no sharp edges and are easy on the fowl's legs. Sizes: Asiatic, American, Mediterranean, Bantam, Pigeon and Baby Chick. Specify size and color wanted. Prices, three largest sizes, per doz. 15c, 100 75c, 1,000 for \$6.50, postpaid; 3 small sizes, dozen 15c, 100 65c, 1,000 for \$5.50, postpaid.



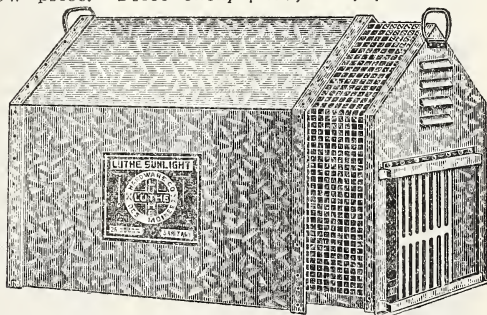
RELIABLE LEG BANDS.

Numbers are black on five colors: red, white, blue, yellow and green. Adjustable, numbered 1 to 100. Price, 25 for 65c; 100, \$2. Postpaid.

VICTOR LEG BANDS.—Larger and stronger than Reliable bands. Specially fine for show birds. Large numbers, black on red, white, blue, green and yellow. Adjustable. Price, 25 for \$1.25; 100 for \$4.50.



MOE'S BROOD COOP.—Made of heavy galvanized iron of best quality. Bottom is removable for cleaning. Adjustable door. Shipped knocked down. Easily set up. Size 16-in. wide, 16 in. high, 23 in. long, weight 12 lbs. A good coop at a low price. Price each, \$2.00; doz., \$22.00.



SUNLIGHT BROOD COOP.—An all metal coop as shown in illustration. Size of coop 18 in. wide, 24 in. long, 19½ in. high, while the wire park is practically the same size. The pen telescopes into the coop portion if desired and has handles by which it is moved. Each \$4.00, six for \$22.00.

CANARIES

Live birds can only be shipped by express, customer to pay cost of transportation.

The Canary is by far the most popular of feathered pets. They thrive and multiply under confinement, and repay good care with cheerful and continuous song. Buy your bird by personal selection if possible, but you can trust us with your order by mail, as we will make most careful selections if you cannot visit our store.

Absolute cleanliness is essential in the care of your bird. Clean the cage each morning and scald the entire equipment in hot water every few days. Feed only seed that is clean, avoiding anything that carries dust and mold. A leaf of lettuce or piece of apple may be given once a week with beneficial results. A piece of cuttle bone should be in the cage at all times and grit should be supplied to help the bird grind its seed. White sand should be sprinkled on the floor of the cage to aid in cleanliness. The simple directions if followed carefully will reduce sickness and loss to the minimum.

ST. ANDREAS ROLLER CANARIES.—The name given these indicates a bird imported from Germany, which has been highly trained to sing in low tones. They are wonderful songsters with flute notes and trills. They are an ideal bird where soft music is desired. They are the highest type canaries and their training increases their value. Prices range from \$10.00 to \$25.00 each. Splendid singers can be purchased for \$15.00.

HARTZ MOUNTAIN CANARIES.—These are imported birds but untrained. They have the natural song, but are selected for range and variety. Owing to care in raising and selection these are far superior to home raised birds. Prices range, \$8.00 to \$10.00 each.

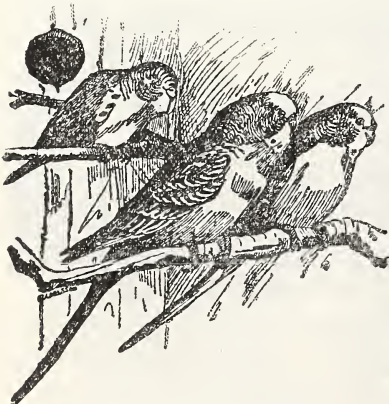
NATIVE CANARIES.—Home raised birds. The male birds we sell are tested in our store before sale, and only good singers are handled. We cull them closely and you can be assured you will get only first grade singers. Price, \$5.00 each.

FEMALE CANARIES.—St. Andreasburg Roller females, dark, each \$3.50; mottled, each, \$4.00; all yellow, each, \$5.00.

Hartz Mountain—Females, dark, each, \$2.00; mottled, each, \$2.50; yellow, each, \$3.00.

Native Birds.—Females, dark, each, \$1.50; mottled, each, \$2.00; yellow, each, \$2.50.

AUSTRALIAN SHELL PAROQUETS or Love Birds.—Beautiful small birds about the size of canaries, with fine form, and lovely markings, beautiful feathered pets. Dark mottled green and yellow or light mottled with only light green dots. Per pair, either type, \$9.00.



AUSTRALIAN PAROQUETS



HARTZ MOUNTAIN CANARY

PARROTS

Young parrots arrive during June, July and August. We list below young untrained birds of the most popular varieties.

MEXICAN DOUBLE YELLOW HEAD.—The most popular parrot Superior to other American parrots and make fluent talkers. During June, July and August price is \$16 each. Balance of year higher.

MEXICAN RED HEAD.—Medium size, make nice talkers and great pets. Price \$9.00 each during June and July. Balance of season higher.

CUBAN PARROTS.—Medium size, green plumage, red tips on wings, white face, make good talkers. Usually in stock June, July and August. Price, \$10.00 each.

PANAMA.—Deep green plumage, some have yellow on back of neck, gentle disposition. Make good talkers; untrained birds, \$20 each.

BIRD SEED

Postage to Iowa points is 7 cents per lb.; 10 cents for 3 lbs.; and one cent for each additional pound. Add postage to prices named below if to go by mail.

Superlative Mixed Bird Seed.....	lb., 20c;	3 lbs., 50c
German Rape Seed	lb., 20c;	3 lbs., 50c
Canary, (best grade)	lb., 20c;	3 lbs., 50c
Hemp, large plump seed	lb., 15c;	3 lbs., 40c
Millet, for finches and love birds	lb., 15c;	3 lbs., 40c
Special love bird mixture	lb., 20c;	3 lbs., 50c
Sunflower, parrots and wild birds	lb., 15c;	3 lbs., 40c
Mixed parrot seed	lb., 15c;	3 lbs., 40c
Maw or Blue Poppy	lb., 60c	
Inga seed	lb., 60c	
Broken cuttle bone (small pieces)	lb., 40c	

PACKAGE GOODS

Superlative Mixed Bird Seed (1 lb.)	\$0.20
Superlative Bird Gravel (1½ lbs.) .....	.15
Superlative White Sand (2 lbs.) .....	.15
Albright's Superior Bird Seed (about 1 lb.) .....	.20
Geisler's Bird Seed (about 14 ounces) .....	.25
French's Bird Seed (about 12 ounces) .....	.15
Spratt's Nestling Food, (C. L. O.) (about 6 oz.) .....	.20
Burnett's Nestling Food (with egg) (about 5 oz.) .....	.20
Philadelphia Nestling Food (about 8 ounces) .....	.25
Albright's Health Food (about 3 ounces) .....	.15
Magic Song Restorer (about 5 ounces) .....	.30
West's Egg Bread (about 8 ounces) .....	.20
West's Moulting Food (about 5 ounces) .....	.25
West's Song Restorer (about 5 ounces) .....	.25
West's Bird Charcoal (about 4 ounces) .....	.15
Small Red Peppers (small box) (about 4 ounces) .....	.15
West's Grit and Charcoal (about 1½ lbs.) .....	.15
Bird Manna (about 3 ounces) .....	.15

IF YOU WANT TO BUY A TRAINED PARROT WRITE FOR DESCRIPTIONS AND PRICES

CANARY CAGES

SQUARE BRASS CAGE

With extended base, draw pan and brass wire guard.

No. 604—	9½x6½x14½ inches.....	\$6.50
No. 606—	10½x7 x14½ inches.....	7.50
No. 608—	10½x7¼x15½ inches.....	8.50

SQUARE JAPANNED CAGE

They are low in price, very durable and attractive, a very popular number. They are painted white and the Japan is thoroughly heated on.

No. 170—	8½x5¾ inches.....	\$2.25
No. 172—	9¾x7 inches.....	2.75
No. 174—	11½x8½ inches.....	3.25

ROUND JAPANNED CAGE

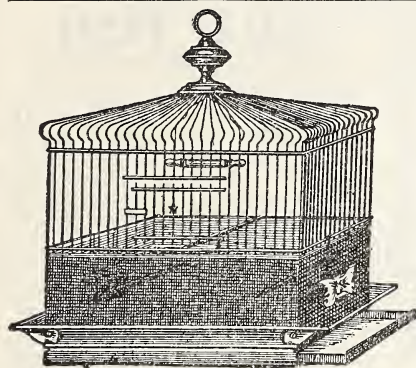
Round cages are popular at this time, especially when cage stands are used. This cage is well made and well proportioned, with brass wire guard to keep seed from being scattered.

No. 2225—	10½ inches.....	\$3.75
No. 2226—	11 inches.....	4.00
No. 2227—	11½ inches.....	4.25

TRAVELING CAGE

It is quite often necessary to take a canary along when going on a trip either by auto or train.

For this purpose we offer the traveling cage as shown herewith. Size 7¼x5½ inches. Height, 5½ inches. Price, \$1.75.



SQUARE BRASS CAGE

ROUND BRASS CAGE

Round cages are always popular. They give the bird the most possible room for the size of cage. Hendryx cages are always good.

No. 2274—	Body 10½ in. diameter.....	\$3.00
No. 2275—	Body 11 in. diameter.....	4.00
No. 2276—	Body 11½ in. diameter.....	4.75

BRASS CAGES WITH COLOR TRIM

No. 2845.—10½ inches in diameter. Brass body and bottom with tassel to match. Light blue gravel pan. Red Wire Guard and Knob. Price, \$5.00.

No. 2846—11 inches diam., same as above with green trim. Price \$5.50.

No. 2847—11¾ inches diam., same as above with blue trim. Price, \$6.00.

PARROT CAGES

Everyone who has a parrot should have a good cage even if they keep the bird most of the time on a perch. Our cages are thoroughly well made, the wires being large and well tinned. The round cages are the most popular on account of their cheapness.

13 inches in diameter.....	\$ 6.00
14½ inches in diameter.....	7.00
16 inches in diameter.....	8.50
18 inches in diameter.....	10.50

BIRD NESTS.—Made of closely woven wire. Handier and more sanitary than home-made nests. Will last several seasons. Each, 15c.

BIRD NESTING.—Prepared especially for birds to use in building their nests. Per package, 10c; 3 for 25c.

TOY BELLS.—Hang one in your bird's cage and you will be surprised at the amount of entertainment he gets out of it. Each, 10c.

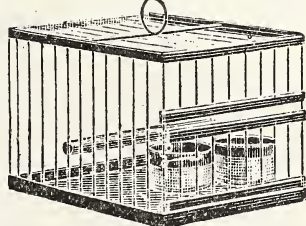
HEALTH FOOD CUPS.—Very handy to use both for feeding health food and other treats such as hard-boiled egg, or a few hemp seeds. Used by placing between wires near end of perch. Price, 10c each; 3 for 25c.

BIRD CAGE HOOKS.—Handy way of hanging cage to window casing. Will swing around so that bird may be turned either toward window or in opposite direction. Screws furnished with hook. Price, 10 inch, 25c; 12 inch, 30c each. Shipping weight, about 8 oz.

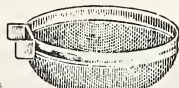
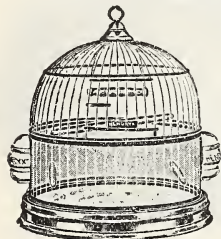
BATH DISHES.—Every canary should have a bath dish. Small size for ordinary canary 15c each. Large size for Norwich, Yorkshire or other large birds, 20c each. Add postage for 8 ounces.

BIRD CUPS.—We can match almost any kind of bird cups. Bring in your broken cups for sample. Prices of cups vary from 10c to 35c each. The tulip and shell cups illustrated at left come in either opal or clear glass and sell at 15c each. Shipping weight 8 ounces per pair.

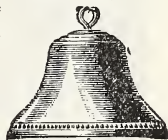
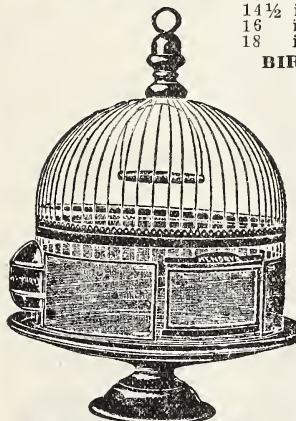
WOOD PERCHES AND SWINGS.—In various sizes for any cage. State length and type wanted. Perches each 10c; swings 15c and 20c each. Uncut perch wood per foot, 10c.



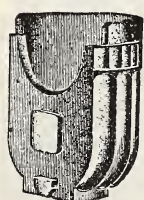
TRAVELING CAGE



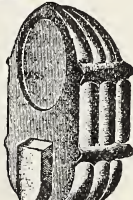
WIRE NEST



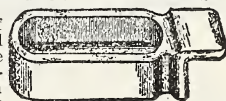
TOY BELLS



TULIP CUP



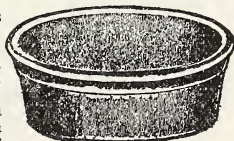
SHELL CUP



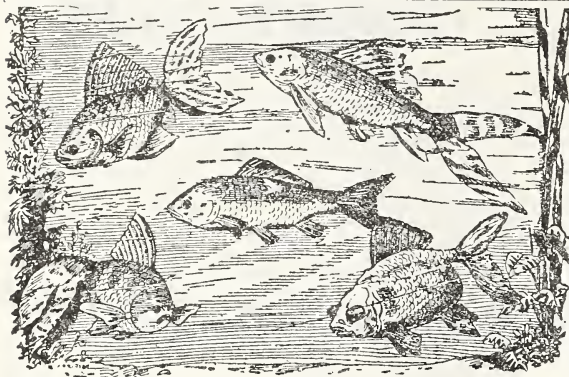
HEALTH FOOD CUPS



BIRD CAGE HOOK



CANARY BATH DISH

JAPANESE FANTAIL
JAPANESE FRINGTAIL

COMMON GOLDFISH

COMET
TELESCOPE

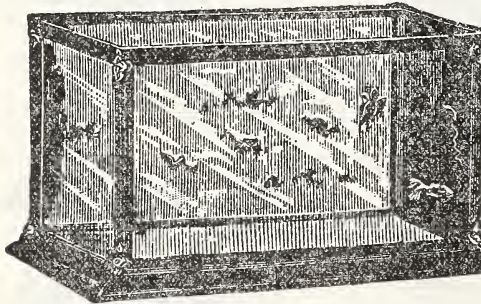
Of all house pets, fish are the least trouble and expense. They require very little attention, yet universally admired by young and old. The aquarium is not only a source of study and amusement, but is also beneficial, absorbing impurities and moistening the dry, heated air of the room.

SHIPPING BUCKETS.—When ordering fish to be shipped out of Des Moines, it will be necessary to allow 20c for a shipping bucket, for any number from one to six. For a large number allow 30c for bucket.

GOLD FISH GLOBES

In selecting a fish globe or aquarium it is advisable to get one large enough to allow at least two quarts of water for each small gold fish and it would be better if each fish could have three quarts or one gallon. That is, a two-gallon globe should not have more than three fish for best results. However, gold fish are often successfully kept in smaller globes but require more attention.

Fill the globe nearly full of ordinary drinking water, cover the bottom of the globe with Superlative Crystal Grit or Superlative White Sand, supply a few stems of aquaria moss, place globe in a cool light place and you should have little trouble in keeping your fish in good condition. Feed the regular fish food only and not oftener than once a day, feeding only as much as the fish will eat at time of feeding.



AQUARIUM SUPPLIES

Fish Food Wafer, box.....	10c
Fish Food Natural, box.....	15c
Fish Food Japanese, box.....	15c
Ant Eggs, box.....	20c
Tropical Fish Food.....	20c
Aquarium Cement, can.....	35c
Superlative Crystal Grit, box.....	15c
Superlative White Sand, box.....	15c
Pearl Chips, colored, box.....	15c



GLOBE ON STAND

FISH GLOBE STANDS

The fish globe stand is a very desirable item as it prevents injury to fine furniture through sweating of the globe, and adds to the beauty of the outfit. Stand with 12 inch globe, \$2.00. Stand only, \$1.00.

GOLD FISH

PRICE LIST OF GOLDFISH

Common Goldfish—	
Small, each	10c
Medium, each	15c
Large, each	25c
Extra Large for pools.....	50c-\$1
Japanese Comets—	
Small, each	25c
Medium, each	35c
Large, each	50c
Japanese Fantails, each....	35c-\$1
Chabunkins—	
Small, each	35c
Large, each	50c

PARADISE FISH.— Sometimes called the ideal parlor fish. At certain seasons they show elegant iridescent colors like the sunfish. Can not be kept with other fish. Under favorable conditions will breed in the ordinary aquarium. Price \$1.20 per pair.



GLASS FISH GLOBE

GLOBE SHAPE

6½ inches—2 quart.....	\$0.35
8 inches—4 quart.....	.70
10¼ inches—8 quart.....	1.25
12 inches—12 quart.....	2.00

SQUAT SHAPE

7½ inches—2 quart.....	\$0.25
9 inches—4 quart.....	.70
12 inches—8 quart.....	1.25
13½ inches—12 quart.....	2.00

SLATE BOTTOM AQUARIUM

This aquarium is neat, durable and practical. Made with steel frame, enameled in green and has heavy slate bottom. A high grade aquarium at a moderate price.

No.	Long	Wide	High	Gals.	Price
31	16½ in.	9 in.	11 in.	6....	\$ 7.50
32	18½ in.	11 in.	12 in.	9....	9.50
33	20½ in.	13 in.	13 in.	12....	12.00
34	22½ in.	13 in.	14 in.	15....	14.00

WATER PLANTS.—Moss and plants growing in the aquarium throw off oxygen and it is this oxygen that the fish require to sustain life. They also supply the fish with a certain amount of green food and add much to the beauty of the aquarium.

Aquarium Ornaments

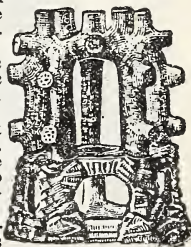
Small, each	20c
Medium, each.....	25c
Large, each.....	35c to \$1

FISH MOSS (Cabomba)

—The most popular plant for aquariums and globes. It furnishes food for the fish and continues to grow fine feathery foliage. Per bunch, 15c.

SMALL SHELLS.

These are small sea shells to adorn the fish globe or aquarium. Box, 15c.



AQUARIA CASTLE

PLANT LOW GROWING FLOWERS AROUND THE BORDERS OF YOUR FISH POOL

DOG FOODS AND REMEDIES

When ordering dog foods and supplies to be sent by parcel post be sure to add postage.

SPRATT'S FIBO

2 lb. carton...	\$ 0.40
1 lb. in bulk...	.20
2 lb. in bulk...	.35
6 lb. in bulk...	1.00
25 lb. in bulk...	3.75
100 lb. in bulk...	15.00

CHAMPION PUPPY MEAL

1½ lb. cartons	\$0.30
7 lbs. in bulk	1.00
25 lbs. in bulk	3.25
100 lbs. in bulk	12.00

CHAMPION DOG BISCUIT

2 lb. carton	.....\$ 0.35
4 lb. carton	......65
1 lb. in bulk	......15
5 lbs. in bulk	......70
25 lbs. in bulk	.....3.25
100 lbs. in bulk	.....12.00

CHAMPION KIBBLED BISCUIT

1 lb. in bulk	.....\$0.15
5 lb. sack	......70
25 lb. sack	.....3.25
100 lb. sack	.....12.00

CHAMPION PUPPY BISCUIT

1½ lb. cartons	.....\$ 0.30
25 lbs. in bulk	.....3.25
100 lbs. in bulk	.....12.00

BENNETT'S MILK-BONE BISCUIT

Large carton Dog Biscuit	.....\$0.40
Small carton Puppy Biscuit	......20
Large carton Puppy Biscuit	......40

MILLER'S A-1 RATION.

A granular food made from clean cooked cereals, meat, bone and blood meal, ready to feed to dogs all ages and breeds. Per lb., 15c; 2 lbs., 25c; 8 lbs., \$1.00; 25-lb. bag, \$2.50; 100 lbs., \$9.00.

KEN-L-RATION, HEMO-RATION PUP-E-RATION

Put up in 1 lb. cans. Can, 15c; 7 for \$1. Case of 4 doz. cans, \$6.50.

KEN-L-RATION is a balanced food for "every-day" use. It is particularly recommended to the owner of one or two dogs. It should be fed regularly and in about the quantity to suit the best judgment of the owner.

HEMO-RATION is specially recommended for breeding dogs, both male and female. It should be fed alternately with KEN-L-RATION for best results in the stud. HEMO-RATION is valuable in feeding anemic subjects and convalescents.

PUP-E-RATION: A perfect food for puppies. Start feeding at 4 weeks (earlier, if the litter is large), about a teaspoonful six times a day, gradually increasing the amount. Puppies should be fed often and not too generously while still sucking. No puppy will develop rickets if fed PUP-E-RATION in proper amounts.

KIT-E-RATION, for cats, per can, 15c; 7 for \$1.00.

DOGGIE DINNER AND PUPPY DINNER

A popular brand of canned dog food similar to Ken-L-Ration. Price 15 cents per can; 7 cans for \$1.00. Case of 3 dozen cans, \$4.85. Postage or express extra.

SUPPLIES

Collars, Harness, etc.—It is not possible to list and describe the many different items of dog supplies such as Collars, Harness, Leads, Chains, Blankets, Sweaters, Muzzles, Combs, Brushes, etc., but come to our store and see a good supply to select from.

SPRATT'S OVALS

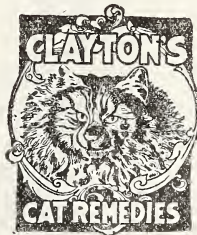
Medium carton...	\$0.40
1 lb. in bulk...	.20
2 lb. in bulk...	.35
6 lb. in bulk...	1.00
25 lb. in bulk...	3.50

SPRATT'S DOG CAKES

2 lb. cartons	.....\$0.48
5 lb. cartons	......80

SPRATT'S PUPPY BISCUIT

2 lb. carton\$0.40
--------------	-------------



We carry a complete line of Clayton's cat remedies and will mail free a cat book giving prices of the various items, and full instructions for the care of the cat. Ask for it, the book is really worth having.

SERGEANT'S DOG MEDICINES

Dog owners can rely upon Sergeant's Dog Medicines at all times to be safe and effective and the last word in the scientific treatment of canine ills.

Sergeant's Mange Medicine	.....\$0.65
Sergeant's Mange Medicine, no tar odor	......75
Sergeant's Condition Pills, a tonic and alternative for pups and dogs	......60
Sergeant's Sure Shot Capsules, For worms	......60
Sergeant's Sure Shot Liquid, For worms	......60
Sergeant's Tape Worm Medicine	......60
Sergeant's Arsenic and Iron Pills, A blood purifier	......60

Sergeant's Canker Wash, For ear canker

Sergeant's Mouth Wash, For sore mouth

Sergeant's Pepsin Tablets, For indigestion

Sergeant's Intestinal Astringent

Sergeant's Expectorant Medicine, For coughs and colds

Sergeant's Diuretic Pills, For rheumatism

Sergeant's Eye Wash

Sergeant's Laxative Capsules

Sergeant's Nerve Sedative, For running fits

Sergeant's Carbolic Tar Soap

Sergeant's Skip-Flea Soap, Will kill fleas and lice

Sergeant's Skip-Flea Powder, For fleas on dogs and cats

Sergeant's Disinfectant, 4-oz. bottle

GLOVER'S DOG MEDICINES

Distemper Medicine, for treatment of distemper. Bottle, \$1.25.

Vermifuge, for expelling worms in dogs. Price, per bottle, 65c.

Worm Capsules, contain the active principles of Vermifuge. Price, per box, 65c.

Tape Worm Capsules, for expelling tape worm. Per box, 65c.

Condition Pills, contain alternative, digestive, tonic and fever-subduing properties. Price, 65c.

Canker Wash, for internal ear canker. Per bottle, 65c.

Eye Lotion, to remove films or ulcers from eyes. Per bottle, 65c.

Diarrhoea Mixture, for acute or chronic diarrhoea and bowel complaints. Per bottle, 65c.

Nerve Sedative, for fits or convulsions. Price, per bottle, 65c.

Iron Tonic, an aid in the treatment of debility arising from distemper. Per bottle, 65c.

Expectorant Mixture, for the treatment of coughs, colds and bronchitis. Per bottle, 65c.

Blood Purifier, a blood alternative. Price, per bottle, 65c.

Sore Foot Medicine, for sore feet arising from frost bites, or overwork. Per bottle, 65c.

Mouth Wash, for sore mouths and gums. Per bottle, 65c.

Compound Sulphur Tablets, for small dogs requiring a cooling medicine. Price, per box, 65c.

Digestive Pills, for acute or Chronic indigestion, gastritis or deranged condition of the digestive organs. Price, per box, 65c.

Liniment, for rheumatism, sprains or bruises. Per bottle, 65c.

Laxative Pills, for constipation. Price, per box, 65c.

Imperial Medicated Soap, an aid in keeping skin and coat healthy. Price, per cake, 30c.

Kennel and Flea Soap. Price 25c.

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Our Banner Offer

BOTH COLLECTIONS, POSTPAID, 50 CENTS

Banner Aster Collection

The Royal Asters of the most popular form. The collection consists of one packet each of ROYAL RED, ROYAL WHITE and ROYAL BLUE, postpaid for only 30 cents.

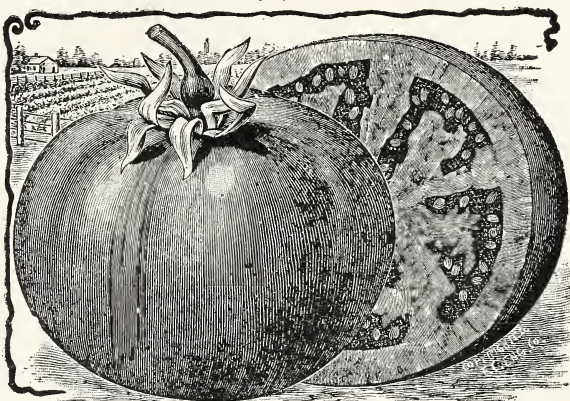
Banner Verbena Collection

The finest strain of Verbenas in existence. We offer in this collection a packet each of GIANT RED, GIANT WHITE and GIANT BLUE and we mail it for only 30 cents.

BACK YARD VEGETABLE COLLECTION

A Complete Garden at a Cost of Only \$1.25

¼ lb. Beans, Stringless Green	
Pod	.15
1 oz. Beet, Early Crimson Globe	.15
1 pkt. Carrot, Oxheart, Gueraude	.05
1 pkt. Carrot, Chantenay, Model	.05
1 pkt. Cabbage, Copenhagen Mkt	.10
¼ lb. Corn, Golden Bantam	.15
1 oz. Cucumber, Ear. Wh. Spine	.15
1 pkt. Lettuce, Curled Simpson	.05
1 pkt. Lettuce, Imp. Hanson	.05
1 pkt. Musk Melon, Hale's Best	.10
1 pkt. Water Melon, Cole's Early	.05
1 pkt. Onion, Large White Globe	.10
1 pkt. Parsley, Champ. Moss. Curl.	.05
1 pkt. Parsnip, Imp. Guernsey	.05
¼ lb. Peas, Notts Excelsior	.15
1 pkt. Radish, Scarlet Globe	.05
1 pkt. Radish, Crimson Giant	.05
1 pkt. Radish, Long Wh. Icicle	.05
1 pkt. Salsify, Sandwich Island	.10
1 oz. Spinach, Long Standing	.10
1 pkt. Tomato, Bonny Best	.10
1 pkt. Turnip, Purple Top Globe	.05
\$1.25 buys this collection,	
valued at	\$1.90



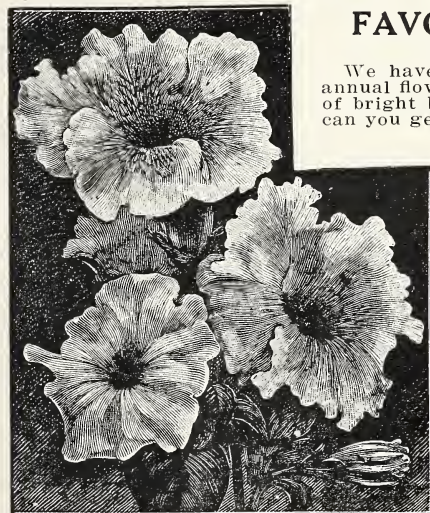
FAVORITE FLORAL COLLECTION

Beautify Your Home for Only \$1.25

We have chosen our finest selections from our favorite annual flowers from which you can have a wonderful supply of bright blooms throughout the summer. In no other way can you get so much beauty at so low cost.

1 pkt. Alyssum, Sweet, Little Gem	.05
1 pkt. Aster, Royal Mixed	.10
1 pkt. Centaurea, Cyanus Mixed	.05
1 pkt. Cosmos, Early Dawn Mixed	.10
1 pkt. Escholtzia, Golden West	.10
1 pkt. Four O'Clock, Mixed Colors	.05
1 pkt. Gypsophila, Baby's Breath	.05
1 pkt. Hollyhock, Annual Mixed	.10
1 pkt. Larkspur, Stock Flowered	.10
1 pkt. Marigold, Eldorado Mixed	.05
1 pkt. Mignonette, Sweet Scented	.05
1 oz. Nasturtium, Dwarf Mixed	.15
1 pkt. Pansy, Giant Trimardeau	.10
1 pkt. Petunia, Grandiflora, Mixed	.10
1 pkt. Portulaca, Single Mixed	.05
1 pkt. Salvia, Splendens	.10
1 oz. Sweet Peas, Spencer Mixed	.25
1 pkt. Straw Flowers, Helichrysum	.05
1 pkt. Verbena, Mammoth Mixed	.10
1 pkt. Zinnia, Robusta Mixed	.10
1 pkt. Cardinal Climber (a Vine)	.10
1 pkt. Morning Glory, Improved Climbing	.05


\$1.25 buys this collection valued at.....\$1.95



First Quality Seeds



BANNER VERBENA COLLECTION PRICE 30¢
SEE INSIDE COVER



BACK YARD VEGETABLE COLLECTION

PRICE - \$1.25
SEE INSIDE COVER



BANNER ASTER COLLECTION PRICE 30¢
SEE INSIDE COVER

DES MOINES SEED CO.

DES MOINES, IOWA